

QUICKLUB®

***Progressive Centralized Lubrication Systems
for Commercial Mineral Oils with Minimum 40 mm²/s (cST)
and Greases up to NLGI - grade 2***



Subject to change without notice

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Technical Description QUICKLUB - Pump 203

Technical Description for "Electronic control units" of pump 203 :

Control p. c. b. 236-13862-1 - model V 10-V13

Control p. c. b. 236-13857-1 - model H

Control p. c. b. 236-13870-1 - model M 00 - M 15

Control p. c. b. 236-13870-1 - model M 16 - M 23

Installation instructions

Electrical Central Lubrication Pump Model 203: 2-l, 4-l and 8-l



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The following parts belong to the scope of delivery of the pump:

- **Pump bottom**, with motor 12 or 24 VDC
- **reservoir** (2-l, 4-l, 8-l), with grease filling 0,75 kg (for 2 l-reservoir), 1,5 kg (for 4 and 8 l reservoir)
- **Pump element(s)**: 1 to 3 pump elements can be used following models are available:
for grease or oil supplying with fixed lubricant output (K...)
 - piston dia. 5 mm; 2 cm³/min
 - piston dia. 6 mm; 2,8 cm³/min
 - piston dia. 7 mm; 4 cm³/min
 for grease or oil supplying with adjustable lubricant output (KR)
 - piston dia. 7 mm; 0,7 cm³ - 3 cm³/min
 - for supplying of chisel paste (C7)
 - piston dia. 7 mm; 4 cm³/min
- **control printed circuit board**, for 12/24 VDC
The following models are available:
V 10 - V13 (V20 - V23), H, M 00 - M 23
Pump without control p. c. b.
- **power supply board for 95 to 265 VAC and with or without control printed circuit board**, for 12/24 VDC
The following models are available:
V 10 - V13
Pump without control p. c. b.
- **electrical connections**: see identification code
without control p. c. b., without low level control
1 pc. square type plug acc. to DIN 43650, type of construction A (black) with 10 m cable, type of connection: 1A1.10 or
1 pc. square type plug acc. to DIN 43650, type of construction A (black) without cable
type of connection: 1A1.01 or
without control p. c. b., with low level control
1 pc. square type plug acc. to DIN 43650, type of construc-

tion A (black) with 10 m cable,
type of connection: 1A1.10

1 pc. square type plug acc. to DIN 43650, type of construction A (grey) without cable
type of connection: 2A1.01 or

2 pc. square type plug acc. to DIN 43650, type of construction A (black) without cable
type of connection: 2A1.01

control p. c. b. V10 - V13, H with/without low level control

1 pc. square type plug acc. to DIN 43650, type of construction A (black) with 10 m cable,
type of connection: 1A1.10

1 pc. square type plug acc. to DIN 43650, type of construction A (grey) without cable
type of connection: 2A1.01 or*

1/2 pc. square type plugs acc. to DIN 43650, type of construction A (black) without cable
type of connection: 1A1.01/2A1.01

control p. c. b. M 00 to M 07 with/without low level control

1 pc. AMP plug with 10 m cable, 4 wire
type of connection: 2A4.12

control p. c. b. M 08 to M 23 with/without low level control

1 pc. AMP plug with 10 m cable, 5 wire
type of connection: 2A4.13

- accessories:

pressure relief valve - must be ordered separately (see under "pressure relief valves" for the different models)

Fixing screws with accessories, drilling template and operating instructions.

Low level control, if any. The parts are integrated in the pump bottom and in the reservoir.

Power supply board for 230 VAC, if any. The parts are integrated in the pump bottom.

* Note : Not available on control p. c. b. model H

2 – Litre Pumps

without control p. c. b. and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-1A1.10	644-37456-1	P 203-2XN-1K5-24-1A1.10	644-37422-1
		P 203-2XN-1K6-24-1A1.10	644-37444-1
		P 203-2XN-1K7-24-1A1.10	644-37519-1

without control p. c. b. , only socket

Model – 24 VDC	Part no.
P 203-2XN-1K6-24-1A1.01	644-40613-1
P 203-2XN-1K6- AC -1A1.01	644-40717-1
P 203-2XN-1K7-24-1A1.01	644-40520-2

without control p. c. b., with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-2XL-1K6-24-2A1.10	644-37478-1
P 203-2XL-1K7-24-2A1.10	644-37487-1

without control p. c. b., with low level control , only socket

Model – 24 VDC	Part no.
P 203-2XL-1K6-24-2A1.01	644-40613-2
P 203-2XL-1K7-24-2A1.01	644-40520-5

with variable pause time and operating time and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-1A1.10-V10	644-37423-1	P 203-2XN-1K6-24-1A1.10-V10	644-37424-1
P 203-2XN-1K6-12-2A1.10-V10	644-37425-1	P 203-2XN-1K6-24-2A1.10-V10	644-37426-1
		P 203-2XN-1K7-24-2A1.10-V10	644-40657-6

with variable pause time and operating time , only socket

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-2A1.01-V10	644-40563-9	P 203-2XN-1K5-24-1A1.01-V10	644-40563-5
		P 203-2XN-1K6-24-1A1.01-V10	644-40563-2

with variable pause time and operating time, 230 VAC, only socket

Model – 24 VDC	Part no.
P 203-2XN-1K6- AC -1A1.01-V10	644-40716-1

with variable pause time and operating time , low level control and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XL-1K6-12-2A1.10-V10	644-40601-5	P 203-2XL-1K6-24-2A1.10-V10	644-37460-1

with variable pause time and operating time , low level control, only socket

Model – 24 VDC	Part no.
P 203-2XL-1K6-24-2A1.01-V10	644-40563-4

with variable pause time and operating time for transport of hazardous materials ADR

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-1A1.11-V10-ADR	644-37446-1	P 203-2XN-1K6-24-1A1.11-V10-ADR P 203-2XN-1K6-24-2A1.11-V10-ADR	644-37447-1 644-37454-1

with fixed pause time for trailers

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-1A1.10-H	644-37406-1	P 203-2XN-1K5-24-1A1.10-H P 203-2XN-1K6-24-1A1.10-H	644-37505-1 644-37407-1

with fixed pause time for transport of hazardous materials for trailers ADR

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-1A1.11-H-ADR	644-37408-1	P 203-2XN-1K6-24-1A1.11-H-ADR	644-37409-1

with microprocessor control

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K6-12-2A4.12-M00	644-37537-1	P 203-2XN-1K6-24-2A4.12-M00	644-40557-1

with microprocessor control and low level control

Model – 24 VDC	Part no.
P 203-2XL-1K6-24-2A4.12-M00	644-37513-1

with flat-type reservoir and variable pause time and operating time

Model – 24 VDC	Part no.
P 203-2XN-1K6-24-1A1.10-V10 P 203-2XN-1K6-24-2A1.10-V10	644-37470-1 644-37471-1

Pump without control p. c. b., with flat-type reservoir

Model – 12 VDC	Part no.
P 203-2XN-1K6-12-1A1.10	644-37502-1

without control p. c. b., with flat-type reservoir for trailers

Model – 24 VDC	Part no.
P 203-2XN-1K6-24-1A1.10-H	644-40601-1

without control p. c. b., filling from top and socket with cable

Model – 24 VDC	Part no.
P 203-2XN-1K6-24-1A1.10	644-40608-2

without control p. c. b., filling from top, only socket

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XN-1K5-12-1A1.01	644-40583-1	P 203-2XN-1K5-24-1A1.01 P 203-2XN-1K6-24-1A1.01 P 203-2XN-1K7-24-1A1.01	644-40540-2 644-40540-1 644-40540-6

without control p. c. b., filling from top, with low-level control and socket with cable

Model – 24 VDC	Part no.
P 203-2XLBO-1K6-24-2A1.10	644-40608-7
P 203-2XLBO-1K7-24-2A1.10	644-40608-6

without control p. c. b., filling from top, with low level control, only socket

Model – 24 VDC	Part no.
P 203-2XLBO-1K5-24-2A1.01	644-40664-6
P 203-2XLBO-1K6-24-2A1.01	644-40540-3
P 203-2XLBO-1K7-24-2A1.01	644-40540-9

without control p. c. b., filling from top for oil and socket with cable

Model – 24 VDC	Part no.
P 203-2YNBO-1K7-24-1A1.10	644-40608-8

without control p. c. b., filling from top for oil, only socket

Model – 24 VDC	Part no.
P 203-2YNBO-1K5-24-1A1.01	644-40743-6

filling from top for oil, with variable pause time and operating time and socket with cable

Model – 24 VDC	Part no.
P 203-2YNBO-1K6-24-1A1.10-V10	644-37468-1
P 203-2YNBO-1K6-24-2A1.10-V10	644-37499-1
P 203-2YNBO-1K7-24-2A1.10-V10	644-37497-1

filling from top for oil, with variable pause time and operating time, only socket

Model – 24 VDC	Part no.
P 203-2YNBO-1K6-24-1A1.01-V10	644-40641-2
P 203-2YNBO-1K7-24-1A1.01-V10	644-40641-5

without control p. c. b., filling from top for oil, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-2YLBO-1K6-24-1A1.10	644-40608-4

without control p. c. b., filling from top for oil, with low level control, only socket

Model – 24 VDC	Part no.
P 203-2YLBO-1K6-24-1A1.01	644-40583-3

filling from top for oil with microprocessor control, with low level control

Model – 24 VDC	Part no.
P 203-2YLBO-1K6-24-2A4.12-M00	644-40557-4

filling from top with variable pause time and operating time and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XNBO-1K5-12-1A1.10-V10	644-40636-5	P 203-2XNBO-1K5-24-1A1.10-V10	644-40636-3
		P 203-2XNBO-1K6-24-1A1.10-V10	644-37510-1
		P 203-2XNBO-1K6-24-2A1.10-V10	644-37514-1
		P 203-2XNBO-1K7-24-2A1.10-V10	644-40636-2

filling from top with variable pause time and operating time, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-2XLBO-1K6-24-2A1.10-V10	644-40636-1
P 203-2XLBO-1K7-24-2A1.10-V10	644-40636-4

filling from top with variable pause time and operating time, only socket

Model – 24 VDC	Part no.
P 203-2XNBO-1K6-24-1A1.01-V10	644-40565-1
P 203-2XNBO-1K6- AC -1A1.01-V10	644-40716-2
P 203-2XNBO-1K7-24-1A1.01-V10	644-40565-4
P 203-2XNBO-1K7-24-2A1.01-V10	644-40565-5

filling from top with variable pause time and operating time, with low level control, only socket

Model – 24 VDC	Part no.
P 203-2XLBO-1K6-24-2A1.01-V10	644-40641-4

filling from top with microprocessor control

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-2XNBO-1K6-12-2A4.12-M00	644-40589-2	P 203-2XNBO-1K6-24-2A4.12-M00	644-40589-3
		P 203-2XNBO-1K7-24-2A4.12-M00	644-40535-7

filling from top with microprocessor control , with low level control

Model – 24 VDC	Part no.
P 203-2XLBO-1K7-24-2A4.12-M00	644-40535-6

4 – Litre Pumps

without control p. c. b. and socket with cable

Model – 24 VDC	Part no.
P 203-4XNBO-1K6-24-1A1.10	644-37486-1
P 203-4XNBO-1K7-24-1A1.10	644-37494-1

without control p. c. b. only socket

Model – 24 VDC	Part no.
P 203-4XNBO-1K5-24-1A1.01	644-40581-4
P 203-4XNBO-1K6-24-1A1.01	644-40581-8
P 203-4XNBO-1K7-24-1A1.01	644-40581-2

without control p. c. b. for oil

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-4YNBO-1K6-12-1A1.10	644-40597-3	P 203-4YNBO-1K5-24-1A1.10	644-40597-4
P 203-4YNBO-1K7-12-1A1.10	644-40597-2	P 203-4YNBO-1K6-24-1A1.10	644-40597-5

without control p. c. b. for oil, only socket

Model – 24 VDC	Part no.
P 203-4YNBO-1K5-24-1A1.01	644-40581-9
P 203-4YNBO-1K7-24-1A1.01	644-40633-3

without control p. c. b. for oil, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-4YLBO-1K6-24-1A1.10	644-40597-1

without control p. c. b. for oil, with low level control, only socket

Model – 24 VDC	Part no.
P 203-4YLBO-1K7-24-1A1.01	644-40600-9

without control p. c. b. for suppling of chisel paste and socket with cable

Model – 24 VDC	Part no.
P 203-4XNBO-1C7-24-1A1.10	644-40597-8

without control p. c. b. with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-4XLBO-1K6-24-2A1.10	644-37515-1

without control p. c. b. with low level control, only socket

Model – 24 VDC	Part no.
P 203-4XLBO-1K6-24-2A1.01	644-40549-2
P 203-4XLBO-1K6-AC-2A1.01	644-40718-1
P 203-4XLBO-1K7-24-2A1.01	644-40549-5

with variable pause time and operating time and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-4XNBO-1K6-12-1A1.10-V10	644-40599-1	P 203-4XNBO-1K6-24-1A1.10-V10	644-37481-1
P 203-4XNBO-1K6-12-2A1.10-V10	644-37501-1	P 203-4XNBO-1K6-24-2A1.10-V10	644-37480-1
P 203-4XNBO-1K7-12-2A1.10-V10	644-40599-7	P 203-4XNBO-1K7-24-1A1.10-V10	644-40662-3
		P 203-4XNBO-1K7-24-2A1.10-V10	644-40662-1

with variable pause time and operating time and socket with cable

Model – 24 VDC	Part no.
P 203-4XNBO-1K5-24-1A1.01-V10	644-40586-6
P 203-4XNBO-1K6- AC -1A1.01-V10	644-40719-1
P 203-4XNBO-1K7-24-1A1.01-V10	644-40586-4

with variable pause time and operating time, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-4XLBO-1K6-24-2A1.10-V10	644-37516-1

with variable pause time and operating time, with low level control, only socket

Model – 24 VDC	Part no.
P 203-4XLBO-1K6-24-2A1.01-V10	644-40586-5
P 203-4XLBO-1K7-24-2A1.01-V10	644-40586-3

for oil, with variable pause time and operating time and socket with cable

Model – 24 VDC	Part no.
P 203-4YNBO-1K6-24-1A1.10-V10	644-40662-2

for oil, with variable pause time and operating time, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-4YLBO-1K7-24-2A1.10-V10	644-40599-3

with fixed pause time for transport of hazardous materials, for trailers

Model – 24 VDC	Part no.
P 203-4XNBO-1K6-24-1A1.11-H-ADR	644-37504-1

with microprocessor control

Model – 24 VDC	Part no.
P 203-4XNBO-1K6-24-2A4.12-M00	644-37533-1

with microprocessor control and low-level control

Model – 24 VDC	Part no.
P 203-4XLBO-1K5-24-2A4.12-M00	644-40629-4
P 203-4XLBO-1K6-24-2A4.12-M00	644-37482-1

8 – Litre Pumps

without control p. c. b. and socket with cable

Model – 24 VDC	Part no.
P 203-8XNBO-1K6-24-1A1.10	644-37483-1

without control p. c. b. only socket

Model – 24 VDC	Part no.
P 203-8XNBO-1K6-24-1A1.01	644-40550-1
P 203-8XNBO-1K7-24-1A1.01	644-40615-1

without control p. c. b., with low-level control and socket with cable

Model – 24 VDC	Part no.
P 203-8XLBO-1K6-24-2A1.10	644-37491-1
P 203-8XLBO-1K7-24-2A1.10	644-40645-3

without control p. c. b., with low-level control, only socket

Model – 24 VDC	Part no.
P 203-8XLBO-1K6-24-2A1.01	644-40550-7
P 203-8XLBO-1K7-24-2A1.01	644-40550-4

without control p. c. b. for oil , only socket

Model – 24 VDC	Part no.
P 203-8YNBO-1K5-24-1A1.01	644-40615-9
P 203-8YNBO-1K6-24-1A1.01	644-40550-9
P 203-8YNBO-1K7-24-1A1.01	644-40615-4

without control p. c. b. for oil, with low level control and socket with cable

Model – 24 VDC	Part no.
P 203-8YLBO-1K6-24-1A1.10	644-40645-2
P 203-8YLBO-1K7-24-1A1.10	644-40645-1

without control p. c. b. for oil, with low level control, only socket

Model – 24 VDC	Part no.
P 203-8YLBO-1K6-24-1A1.01	644-40550-8

with variable pause time and operating time and socket with cable

Model – 12 VDC	Part no.	Model – 24 VDC	Part no.
P 203-8XNBO-1K6-12-1A1.10-V10	644-40683-2	P 203-8XNBO-1K6-24-1A1.10-V10	644-37475-1
P 203-8XNBO-1K6-12-2A1.10-V10	644-40683-1	P 203-8XNBO-1K6-24-2A1.10-V10	644-37474-1
		P 203-8XNBO-1K7-24-1A1.10-V10	644-37534-1

with variable pause time and operating time, with low level control and socket with cable

Model – 12 VDC	Part no.
P 203-8XLBO-1K6-12-2A1.10-V10	644-37455-1

with variable pause time and operating time, only socket

Model – 24 VDC	Part no.
P 203-8XNBO-1K6-24-2A1.01-V10	644-40594-9
P 203-8XNBO-1K7-24-1A1.01-V10	644-40594-8
P 203-8XNBO-1K7-24-2A1.01-V10	644-40594-4

with variable pause time and operating time, with low level control, only socket

Model – 24 VDC	Part no.
P 203-8XLBO-1K7-24-2A1.01-V10	644-40594-6

for oil, with variable pause time and operating time, only socket

Model – 24 VDC	Part no.
P 203-8YNBO-1K7-24-1A1.01-V10	644-40594-2

with microprocessor control

Model – 24 VDC	Part no.
P 203-8XNBO-1K6-24-2A4.12-M00	644-37484-1

with microprocessor control and low level control

Model – 24 VDC	Part no.
P 203-8XLBO-1K6-24-2A4.12-M00	644-37485-1

Conversion kits: from 2 l reservoir to 2 l flat -, 4 l- or 8 l reservoir

4 l Reservoir		8l Reservoir	
Model designation	Part no.	Model designation	Part no.
203-4XNBO/4YNBO	544-32022-1	203-8XNBO/8YNBO	544-32023-1

2 l Flat reservoir	
Model designation	Part no.
203-2XNFL	544-32047-1

Identification Code - Pump Models 203

Examples of model designations

P203-	2	X	N	-	1	K6-	AC-	1A	1.	01-	V10
P203-	4	X	L	-	1	K7-	24-	2A	1.	10-	V12
P203-	2	X	N	-	1	K6-	12-	1A	8.	00	
P203-	2	X	N	-	1	K6-	24-	2A	1.	11-	V10-ADR
P203-	2	y	N	BO-	2	K5-	24-	1A	1.	01	
P203-	4	X	N	BO-	1	K6-	24-	2A	4.	12-	M00

Basic pump for grease and oil
with 1 to 3 outlets

Reservoir design

2 = 2 l transparent plastic reservoir
4 = 4 l transparent plastic reservoir
8 = 8 l transparent plastic reservoir

X = reservoir for grease
Y = reservoir for oil

N = standard design
L = low-level control

without designation = Standard reservoir (2 Litre)
BO = filling from top
FL = flat reservoir (2 Litre)

Pump elements

1-3 = number of the used elements
K 5 = piston diameter = 5 mm
K 6 = piston diameter = 6 mm
K 7 = piston diameter = 7 mm
KR = adjustable pump element , piston diameter = 7 mm
C7 = piston diameter = 7 mm ***

Motor

12 V DC or 24 VDC
AC = 94 - 265 VAC (47-63 Hz) with 24 VDC motor¹

Numbers of possible connections

1A = 1 connection, supply voltage (left hand)
2A = 2 connections; 1 connection for supply voltage + 1 connection for remote control for additional lubrication and low-level control****(right hand) or piston detector (microprocessor)

Type of connection

1 = square type plug, acc. DIN 43650, type of construction A
4 = AMP - flanged plug (microprocessor)
8 = PG - cable gland
9 = AMP plug wire to wire

Connection outside of the pump

00 = without socket outlet, without cable
01 = with socket outlet, without cable
10 = with 10 m cable
11 = with 10 m ADR cable
12 = with 10 m cable , 4 wire (microprocessor M00 - M07)
13 = with 10 m cable , 5 wire (microprocessor M08 - M23)

Control p. c. b. s. 12VDC / 24 VDC

V10 - V13 = with variable pause time and operating time (V20 - V23 for USA)
V10 - V13 - ADR = with variable pause time and operating time**
M00 ..M23* = with microprocessor control (various adjustments, see combinations of the jumper-positions)*
H = for trailers or semitrailers
H-ADR = for trailers or semitrailers**
No designation: pump without control p. c. b.

* Not in conjunction with cube-type plug (type of connection 1)

** for transport of hazardous material

*** C7 = designation of pump elements (Chisel = Meißel) for supplying of paste for chisel.

**** low-level control for oil; connection of low level control for oil is not considered.

Note: Any pumps combinations other the above standard pumps can be composed and ordered in accordance with the valid model identification code.

¹AC model is available with or without p. c. b. 236-13891-1

Subject to change without notice



Item	Designation of assembly
01	Lower part
02	Pump element K5
03	Pump element K6
04	Pump element K7, C7
05	Pump element KR
06	Reservoir 2 XN
07	Reservoir 2 XNBO (2YNBO)
08	Reservoir 2 XNFL
09	Reservoir 2 XL
10	Reservoir 2 XLBO
11	Reservoir YLBO
12	Reservoir4 XNBO (4YNBO)
13	Reservoir 4 XLBO
14	Reservoir 4 YLBO
15	Reservoir8 XNBO (8YNBO)
16	Reservoir 8 XLBO
17	Reservoir 8 YLBO
22	Type of connection and control 1A1. 00 - V10 - V13
23	Type of connection and control 2A1. 00 - V10 - V13
24	Type of connection and control 1A1. 01 - V10 - V13
25	Type of connection and control 2A1. 01 - V10 - V13
26	Type of connection and control 1A1. 10 - V10 - V13
27	Type of connection and control 2A1. 10 - V10 - V13
30	Type of connection and control 1A1. 11 - V10 - V13 - ADR
31	Type of connection and control 2A1. 11 - V10 - V13 - ADR
32	Type of connection and control 2A4. 12 - M00 - M07, 2A4.13 - M08 - M23
33	Type of connection and control 2A9. 12 - M00 - M07, 2A9.13 - M08 - M23
34	Type of connection and control 1A1. 10 - H
35	Type of connection and control 1A1. 11 - H - ADR
36	Type of connection and control 1A1. 00
37	Type of connection and control 1A8. 00
38	Type of connection and control 1A1. 01
39	Type of connection without p.c.b. 2A1. 01
40	Type of connection without p.c.b. 1A1. 10
41	Type of connection without p.c.b. 2A1. 10
42	Type of connection without p.c.b. AC 1A1. 01
43	Type of connection without p.c.b. AC 2A1. 01
44	Type of connection and control AC 1A1. 01 - V10 - V13
45	Type of connection and control AC 2A1. 01 - V10 - V13

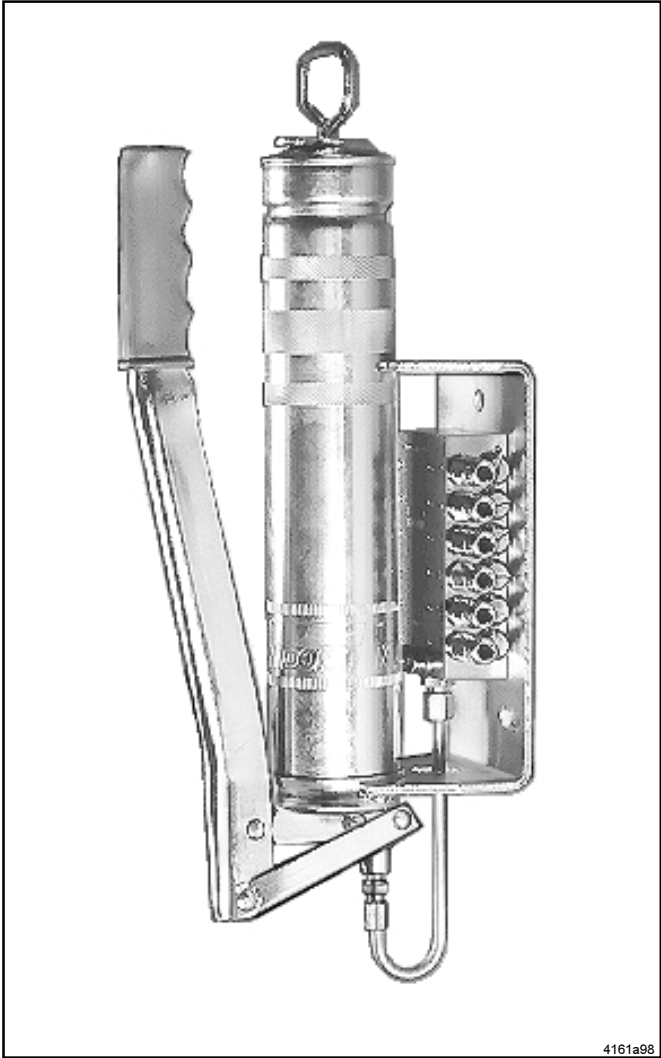
*Note: The assemblies are to be used **only for the calculation of the sales price**. The item numbers are identical with those of the price list*

Hand-Operated Central Lubrication Pumps

Model HP 500 W and HP 500 W-SSV



Pump model HP 500 W



Pump model HP 500 W-SSV

Reservoir capacity 400 cm³	
Model designation	Part no.
HP 500 W	244-14164-1

Reservoir capacity 400 cm³		
Number of outlets	Model designation	Part no.
6	HP 500 W-SSV 6	604-28766-1
8	HP 500 W-SSV 8	604-28767-1
10	HP 500 W-SSV 10	604-28768-1
12	HP 500 W-SSV 12	604-28769-1

Note: Please order check valves oder closure plugs separately

Hand-Operated Central Lubrication Pumps Model HP, HPG, HPGO



Pump model HP 15



Pump model HP G15

Pump with one outlet, for grease

Reservoir capacity 1500 cm ³			
		Model designation	Part no.
		HP 15	604-25103-1

Pump with basic body “G”, for grease

Reservoir capacity 1500 cm ³			
		Model designation	Part no.
		HPG 15	604-25109-2



Pump model HPGO 18

Pump with basic body “G”, for oil

Reservoir capacity 1800 cm ³			
		Model designation	Part no.
		HPGO 18	604-27212-1

Subject to change without notice

Pneumatically operated Central Lubrication Pumps

Model PP, PPG, PPO, PPGO



Pump model PP15



Pump model PPG15

Pump with one outlet, for grease

Reservoir capacity 1500 cm³		
	Model designation	Part no.
	PP 15	604-25105-2

Pump with basic body “G”, for grease

Reservoir capacity 1500 cm³		
	Model designation	Part no.
	PPG 15	604-25111-3

Pneumatic operated Central Lubrication Pumps Model PP, PPG, PPO, PPGO (Cont.)



Pump model PPO 18



Pump model PPGO 18

Pump with one outlet, for oil

Reservoir capacity 1800 cm ³		
	Model designation	Part no.
	PPO 18	604-27223-1

Pump with basic body “ G ” for oil

Reservoir capacity 1800 cm ³		
	Model designation	Part no.
	PPGO 18	604-27213-1

Progressive Metering Devices SSV; SSVM and Connecting Elements

Progressive metering devices SSV (Standard)



Model	Fixing-Ø mm	Part no.
SSV 6	6.4	619-26473-1
SSV 8	6.4	619-25730-2
SSV 10	6.4	619-26841-1
SSV 12	6.4	619-25731-2
SSV 14	6.4	619-28862-1
SSV 16	6.4	619-28863-1
SSV 18	6.4	619-28864-1
SSV 20	6.4	619-28865-1
SSV 22	6.4	619-28866-1
Pistone closure plug	M11x1	303-19716-1

Progressive metering devices SSV(high-grade steel 1.4305)



Model	Fixing-Ø mm	Part no.
SSV 6	6.4	619-27471-1
SSV 8	6.4	619-27473-1
SSV 10	6.4	619-27475-1
SSV 12	6.4	619-27477-1
SSV 14	6.4	619-27814-1
SSV 16	6.4	619-27725-1
SSV 18	6.4	619-27973-1
SSV 20	6.4	619-27947-1

Progressive metering devices SSV(high-grade steel 1.4571)

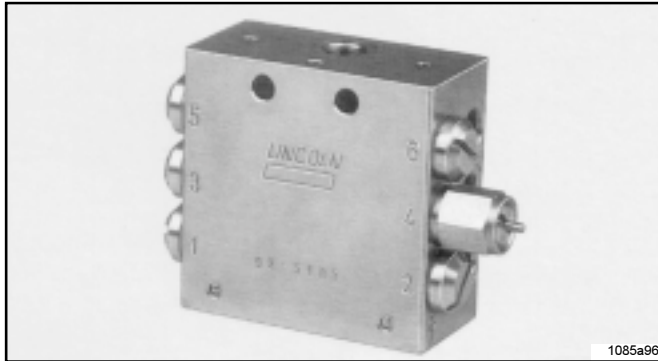
Model	Fixing-Ø mm	Part no.
SSV 6	6.4	619-27824-1
SSV 8	6.4	619-27825-1
SSV 10	6.4	619-27889-1
SSV 12	6.4	619-27900-1

Progressive metering device SSV with indicator pin (standard)



Model	Fixing-Ø mm	Part no.
SSV 6-K	6,4	619-26474-3
SSV 8-K	6,4	619-25754-4
SSV 10-K	6,4	619-26842-2
SSV 12-K	6,4	619-25755-4
SSV 14-K	6,4	619-28871-1
SSV 16-K	6,4	619-28872-1
SSV 18-K	6,4	619-28873-1
SSV 20-K	6,4	619-28874-1
SSV 22-K	6,4	619-28875-1

**Progressive metering device SSV with indicator pin
(high-grade steel 1.4305)**



Model	Fixing - Ø mm	Part no.
SSV 6-K	6.4	619-27472-1
SSV 8-K	6.4	619-27474-1
SSV 10-K	6.4	619-27476-1
SSV 12-K	6.4	619-27478-1
SSV 14-K	6.4	619-27854-1
SSV 16-K	6.4	619-27855-1
SSV 18-K	6.4	619-27974-1
SSV 20-K	6.4	619-28201-1

**Progressive metering devices SSV with indicator pin and
mounted limit switch (spare parts only)**

Model	Fixing - Ø mm	Part no.
SSV 6-KS	6.4	619-27074-1
SSV 8-KS	6.4	619-27070-1
SSV 10-KS	6.4	619-27069-1
SSV 12-KS	6.4	619-27068-1
SSV 16-KS	6.4	619-28906-1
SSV 18-KS	6.4	619-27293-1
SSV 20-KS	6.4	619-27295-1

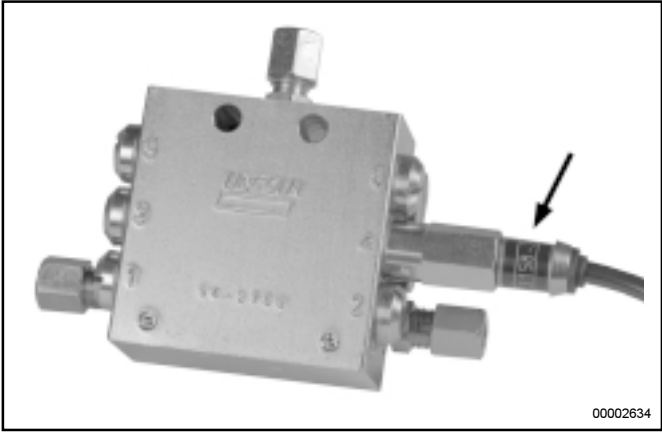
**Progressive metering devices SSV with indicator pin and
mounted proximity switch (spare parts only)**

Model	Fixing-Ø mm	Part no.	Switching mode
SSV 6-KN	6.4	619-27613-1	PNP
SSV 8-KN	6.4	619-27614-1	PNP
SSV 10-KN	6.4	619-27615-1	PNP
SSV 12-KN	6.4	619-27616-1	PNP
SSV 14-KN	6.4	619-27617-1	PNP
SSV 16-KN	6.4	619-28905-1	PNP
SSV 18-KN	6.4	619-27619-1	PNP
SSV 20-KN	6.4	619-28934-1	PNP

Note: The mentioned metering devices are equipped with "Turk" proximity switches. Other makes are available on request. Metering devices made of high-grade steel are also available on request.

SSV 6-KN	6.4	619-27953-1	NPN
SSV 8-KN	6.4	619-27918-1	NPN
SSV 10-KN	6.4	619-27961-1	NPN
SSV 12-KN	6.4	619-27962-1	NPN

*Progressive metering devices SSV with piston detector
for electric monitoring, without connecting plug*

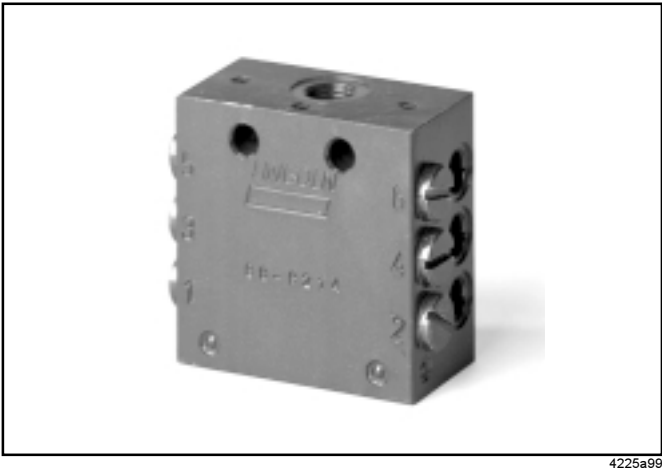


Model	Fixing - Ø mm	Part no.
SSV 6-N	6.4	619-28257-1
SSV 8-N	6.4	619-28258-1
SSV 10-N	6.4	619-28259-1
SSV 12-N	6.4	619-28260-1
SSV 14-N	6.4	619-28890-1
SSV 16-N	6.4	619-28907-1
SSV 18-N	6.4	619-28957-1
SSV 20-N	6.4	619-28935-1
SSV 22-N	6.4	619-29015-1

*Progressive metering devices SSV with piston detector
for electric monitoring, with connecting plug*

Model	Fixing - Ø mm	Part no.
SSV 6-N	6.4	619-28521-1
SSV 8-N	6.4	619-28746-1
SSV 10-N	6.4	619-28747-1

Progressive metering devices SSV M



Model	Fixing - Ø mm	Part no.
SSV M 6	5,5	619-26761-1
SSV M 6 - K	5,5	619-26762-3
SSV M 8	5,5	619-37044-1
SSV M 8 - K	5,5	619-37045-3
SSV M 10	5,5	619-26846-1
SSV M 10 - K	5,5	619-26847-2
SSV M 12	5,5	619-37049-1
SSV M 12 - K	5,5	619-37050-3
Piston closure plug	M 8 x1x 5C	303-17530-1
Copper washer	Ø 8x10x1	209-12464-7

Inlet fittings, screw-type

Male connector



Model	Part no.
Standard	
GE 4 - LLG1/8 A	223-12270-8
GE 6 - LLR1/8 KC	223-12270-7
GE 8 - LLR1/8 KC	223-12270-9
<hr/>	
high-grade steel (1.4571)	
GE 4 - LLG1/8 A	223-13614-8
GE 6 - LLG1/8 A	223-13614-9
GE 8 - LLG1/8 A	223-13658-1

Male elbow



Model	Part no.
Standard	
WE 6 - LLR1/8 KC	223-12485-9
WE 8 - LLR1/8 KC	223-13021-6
<hr/>	
High-grade steel (1.4571)	
WE 4 - LLR1/8 K	223-13677-8
WE 6 - LR1/8 K	223-13620-8
WE 6 - LLR1/8 K	223-12453-7

Hydraulic lubrication fitting for metering device inlet



Model	Thread	Part no.
Standard		
Hydraulic lubrication fitting 45°	BR1/8 Z	251-14045-1
Hydraulic lubrication fitting 90°	BR1/8 Z	251-14040-1
<hr/>		
High-grade steel (1.4305)		
Hydraulic lubrication fitting 45°A2	BR1/8	251-14063-4

Subject to change without notice

2.0A-20001-E01

Quicklincs, push-in type

Male connector



Model	Diameter	Part no.
GEKV S6510-6-1/8-S01	6 mm	226-14111-1

Important: To be used only for a connection for hose stud with groove.

Male elbow

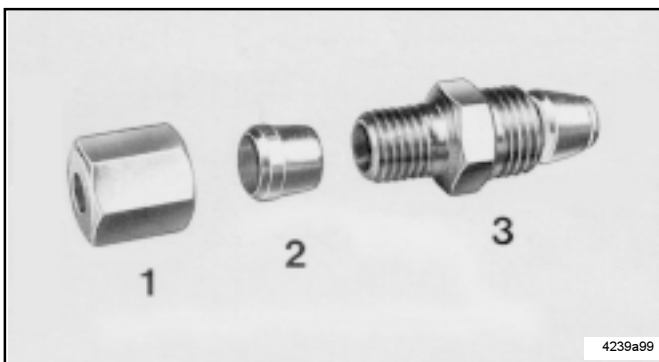


Model	Diameter	Part no.
WEKV S6500-6-1/8-S01	6 mm	226-13753-9

Important: To be used only for a connection for hose stud with groove.

Outlet fittings, screw-type

Standard



Item	Designation	Tube diameter	Part no.
Outlet fitting assembly SSV M			
1	coupling nut	4 mm	223-13032-1
2	cutting ring	4 mm	223-12295-1
3	valve body	M 8x1	519-31612-1
	clamping ring		419-22603-4

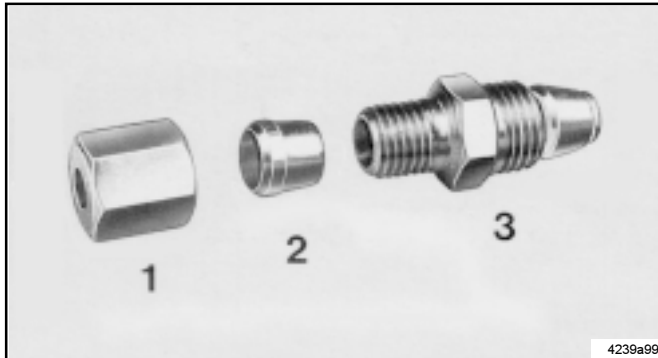
Outlet fitting assembly SSV			
	compl. with check valve	4 mm	504-30345-2
	consisting of :		
1	coupling nut	4 mm	223-13032-1
2	cutting ring	4 mm	223-14083-3
3	valve body with clamping ring	M 10x1	504-30517-2

Outlet fitting assembly SSV			
	compl. with check valve	6 mm	504-30344-4
	consisting of :		
1	coupling nut	6 mm	223-12374-9
2	cutting ring	6 mm	223-14083-3
3	valve body with clamping ring	M 10x1	504-30364-4

Note: Use only the above mentioned original LINCOLN outlet fittings (items 1-3).

Note: Opening pressure of check valve in the valve body: 6 to 8 bar

Outlet fittings, screw-type (high-grade steel 1.4571)



Item	Designation	Tube diameter	Part no.
Outlet fitting assembly			
	compl. with check valve	4 mm	504-31709-1
consisting of :			
1	Coupling nut	4 mm	223-13638-6
2	Cutting ring	4 mm	223-13639-5
3	Valve body with clamping ring	M 10x1	504-31704-2

Outlet fitting assembly			
	compl. with check valve	6 mm	504-31705-1
consisting of:			
1	Coupling nut	6 mm	223-13638-2
2	Cutting ring	6 mm	223-13639-2
3	Valve body with clamping ring	M 10x1	504-31712-2

Note: Use only the above mentioned original LINCOLN outlet fittings (items 1-3).

Outlet fittings, screw-type, without check valve

Item	Designation	Tube diameter	Part no.
Standard SSV M			
	Compressing nut	4 mm	419-22604-4
	Clamping ring	4 mm	419-22603-4
Standard SSV			
	Compressing nut	6 mm	404-20236-4
	Clamping ring	6 mm	404-23034-1
High-grade steel 1.4571			
	Compressing nut	6 mm	404-23668-1
	Clamping ring (brass)*	6 mm	404-23034-1

[* for plastic tube Ø 6 x 1,5 mm only]

Quicklincs, push-in type

From the main metering device to the secondary metering device



Designation	Tube diameter	Part no.
Valve body with clamping ring	6 mm	
RVV 6511-6-M 10x1-S02		226-14091-4

Important! Use the valve body only for connecting the high-pressure plastic hose (incl. hose stud with groove) to the main metering device. The clamping ring of the valve body is not knurled and has a wide collar.

Subject to change without notice

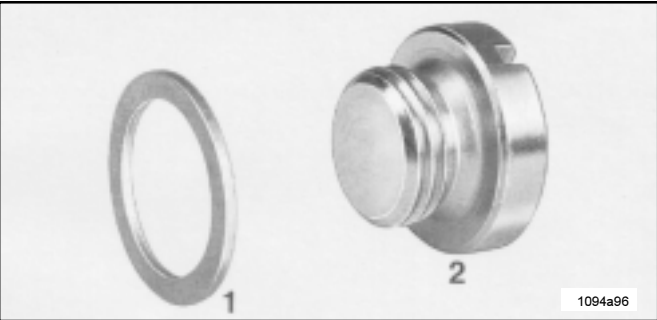
From secondary metering device to the lubrication point



Designation	Tube diameter	Part no.
SSV M		
Valve body with clamping ring RV 6511-4-M 8x1-S02	4 mm	226-14091-5
SSV		
Valve body with clamping ring RV 6511-4-M 10x1-S02	4 mm	226-14091-6
SSV		
Valve body with clamping ring RV 6511-6-M 10x1-S01	6 mm	226-14091-2

Important! Use the valve body only for connecting the pressure plastic tube (Ø 4 x 1,5 mm or 6 x 1,5 mm) to the lubrication point. The clamping ring of the valve body is knurled and has an anarrow collar.

Closure plug, old design for SSV (for combining outlets)



Item	Designation	Dimensions	Part no.
Standard SSV M			
1	Copper washer	Ø 8 mm	209-12464-7
2	Closure plug	M 8x1	303-17530-1
SSV			
1	Copper washer	Ø 10 mm	209-12158-2
2	Closure plug	M 10x1	303-17499-2
High-grade steel (1.4571)			
2	Closure plug	M 10x1	303-19346-1

Important: In the case of the metering devices SSV (M)6 to SSV 12 (M) and the block metering devices SSV 14 to SSV 22 never close outlet numbers 1 and/or 2. In the case of the combined metering devices SSV 14 to SSV 22 never close the two outlets with the highest numbers.

2.0A-20001-E01

Closure plug, new design for SSV (for combining outlets)



Item.	Designation	Dimensions	Part no.
Standard			
	Closure plug	M 10x1	303-17499-3
High-grade steel (1.4571)			
	Closure plug	M 10x1	303-19346-2
	O-ring	ø 10x1	219-13798-3

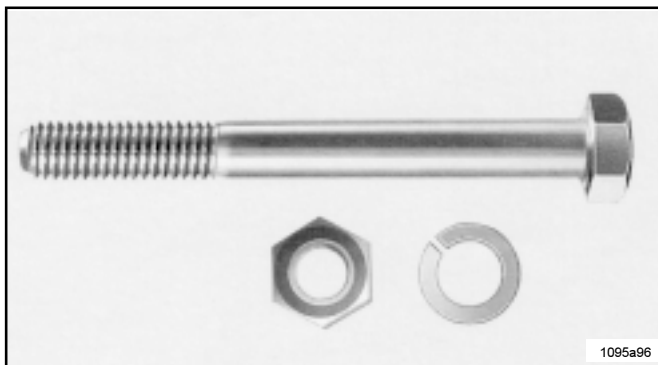
Outlet combining element, screw-type

Part no.

519-31826-1

Note: With the outlet combining element the grease quantities of outlets 1 and 2 (SSV 6 - 12, block SSV 14 - 22) or of the two outlets with the highest numbers (combined SSV 14 - 22) are fed to one lubrication point.

Fixing parts



Designation	Dimensions	Part no.
Standard		
Hexagon head screw	M 5 x 45 C	200-13017-5
Hexagon head screw	M 5 x 55 C	200-13017-7
Hexagon head screw	M 6 x 45 C	200-13092-3
Hexagon head screw	M 6 x 55 C	200-13037-7
Hexagon head screw	M 6 x 60 C	200-13037-3
Hexagon socket head screw	M 6 x 45 C	201-12019-3
Hexagon socket head screw	M 6 x 60 C	201-12019-6
Hexagon nut	M 5 C	207-12138-2
Hexagon nut	M 6 C	207-12135-5
Hexagon head screw + washer	M 8 x 40 C	200-14165-1
Spring lock washer	A 6 C	213-12168-8
Washer, ST	A8. 4C	209-13077-1
Tooth washer	J5. 3Z	210-12161-9
Seal - lock nut	M 8	207-12516-1
Hexagon head screw	M 8 x 30 C	200-12007-6
High-grade steel (1.4571)		
Hexagon head screw	M 6 x 60	200-13726-1
Hexagon socket head screw	M 6 x 45	201-13741-4
Hexagon socket head screw	M 6 x 50	201-13741-5
Washer	6.4	209-12152-9
Washer	A 6.4	209-13683-2
Hexagon nut	M 6	207-13657-6

Connecting Elements for Lubrication Points and Lubricant Feed Lines

Identification Code for Fittings

Examples

	WE	6	-LL	M8x1K	C
	GE	4	-LL	R1/8K	C
	SWVE	6	-LL	M10x1K	C
	TR	10/6/10	-L		C
	T	6	-LL		C
Fitting type abbreviation					
Tube diameter (mm)					
Series (LL, L)					
Male thread, tapered cylindrical					
Finish, yellow-chromate					

Connecting Elements, Screw-Type

Male connector (tube Ø 4 mm)



Model	Part no.
Standard	
GE4-LLM 6x1KC	223-12533-5
GE4-LLM 8x1KC	223-12271-8
GE4-LLM 10x1KC	223-13069-1
GE4-LLR 1/8KC	223-12270-8

Male connector (tube Ø 6 mm)



Model	Part no.
Standard	
GE6-LLM 6x1KC	223-12533-9
GE6-LLM 8x1KC	223-13023-1
GE6-LLM 10x1KC	223-12271-7
GE6-LLR 1/8KC	223-12270-7
GE6-LG 1/4AC	223-12477-8
High-grade steel (1.4571)	
GE6-LLM 6x1K	223-13658-7
GE6-LLM 8x1K	223-13658-6
GE6-LLM 10x1K	223-13658-5
GE6-LLG 1/8A	223-13614-9
GE6-L 1/8 NPTA	223-13784-2
GE6-LG 1/8A	223-13658-2
GE6-LG 1/4A	223-13658-9

Subject to change without notice

Male connector (tube Ø 8 mm)



Model	Part no.
GE8-LLM 10x1KC	223-13021-1
GE8-LM 12x1,5KC	223-12361-6
GE8-LLR 1/8KC	223-12270-9
GE8-LLR 1/4KC	223-13621-6
GE8-LG 1/4AC	223-12477-6

Male elbow (tube Ø 4 mm)



Model	Part no.
WE4-LLM 6x1KC	223-12533-6
WE4-LLM 8x1KC	223-13021-5
WE4-LLM 10x1KC	223-13069-2
WE4-LLR 1/8KC	223-13021-4

Male elbow (tube Ø6 mm)



Model	Part no.
Standard	
WE6-LLM 6x1KC	223-13023-2
WE6-LLM 8x1KC	223-13023-3
WE6-LLM 8x1,25KC	223-13763-4
WE6-LLM 10x1KC	223-13021-3
WE6-LLR 1/8KC	223-12485-9
WE6-LR 1/4KC	223-12380-6
High-grade steel (1.4571)	
WE6-LLM 6x1K	223-13677-4
WE6-LLM 8x1K	223-13677-2
WE6-LLM 10x1K	223-13677-3
WE6-LLR 1/8K	223-12453-7
WE6-LR 1/8K	223-13620-8
WE6-LR 1/4K	223-13794-1
WE6-SR 1/4K	223-13620-1

Subject to change without notice

Male elbow (tube Ø 8 mm)



Model	Part no.
WE8-LLM 10x1KC	223-12362-4
WE8-LM 12x1,5KC	223-12362-8
WE8-LLR 1/8KC	223-13021-6
WE8-SR 1/4KC	223-13048-4

Extension adapter



Model	Thread, female	Thread, male	Part no.
RK 421	M 8x1	M 6x1 K	304-19787-1
RK 422	M 8x1	M 8x1 K	304-19437-1
	M 10x1	M 10x1 KC	304-19509-1
	M 10x1	R 1/8 KC	304-19230-1
RK 605	M 10x1	M 12x1 KC	712-12724-7
	R 1/8	M 8x1 KC	304-19167-1
	M 8x1	M 8x1,25 KC*	304-19548-1
	* for Renault		

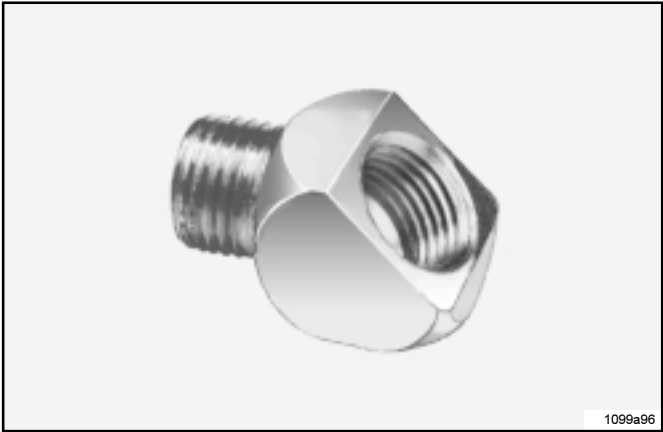
Adapter 90 °



Thread, male	Thread, female	Part no.
M 8x1 K	M 8x1 C	432-24043-1
M 10x1 K	M 8x1 C	432-24052-1

Note: When screwing in a threaded fitting take care that the outlet borehole of the elbow fittings is not closed by the threaded piece of the inlet fitting.

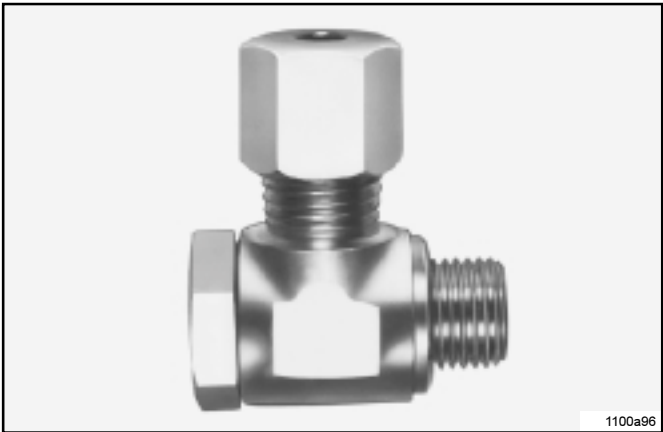
Adapter 45 °



Thread, male	Thread, female	Part no.
M 8x1	M 8x1	432-24050-1
M 10x1	M 8x1	432-24051-1

Note: When screwing in a threaded fitting take care that the outlet borehole of the elbow fittings is not closed by the threaded piece of the inlet fitting.

Banjo connector



Model	Tube diameter	Part no.
SWV E4-LLG 1/8 AC	4 mm	223-13629-1
SWV E4-LLM 10x1 C	4 mm	223-12480-8
SWV E6-LLG 1/8 AC	6 mm	223-12479-9
SWV E6-LLM 10x1 C	6 mm	223-12480-7

Straight swivel



Model	Part no.
1/8 i x 1/8 a NPT	223-12567-3

Note: To be used only for occasional rotary motions

90° angle swivel



Model	Part no.
1/8 i x 1/8 a NPT	223-12567-1

Note: To be used only for occasional rotary motions

Union

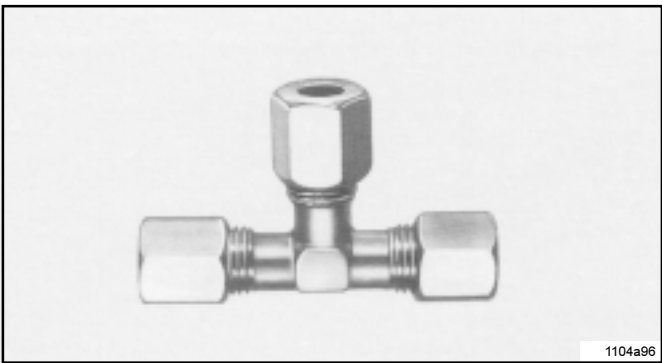


Model	Tube diameter	Part no.
Standard		
G4-LLC	4 mm	223-12531-8
G6-LLC	6 mm	223-12482-9

High-grade steel

G6-LL	6 mm	223-12454-7
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Union - tee



Model	Tube diameter	Part no.
Standard		
T4-LLC	4 mm	223-12563-5
T6-LLC	6 mm	223-12484-9
T6-LC	6 mm	223-12484-2

High-grade steel

T6-L	6 mm	223-12455-7
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Identification Code for Plug-Type Fittings (Quicklinks)

Examples

Fitting type abbreviation
Type designation (manufacturer)
Tube diameter (mm)
Male thread, tapered (if any)
Special designs

WEK	6500-	-6-	M8x1	S01
GEK	6510-	-4-	R1/8	S02
SWVZ	6540-	-6-	M10x1	S01
GS	6580-	-6-		S02
TS	6540-	-6-		S01

Quicklinks, Push-in Type
Male connector, push-in type



Model	Tube diameter	Part no.
Design with knurled collar		
GEK 6510-4-M 6x1-S01	4 mm	226-13752-3
GEK 6510-4-M 8x1-S01	4 mm	226-13752-1
GEK 6510-4-M 10x1-S01	4 mm	226-13752-2
GEK S6510-4-1/8-S01	4 mm	226-13752-4
GEK 6510-6-M 6x1-S01	6 mm	226-13752-8
GEK 6510-6-M 8x1-S01	6 mm	226-13752-7
GEK 6510-6-M 10x1-S01	6 mm	226-13752-6
GEK 6510-6-1/8-S01	6 mm	226-13752-9

Important: Use this fitting only for the connection of the lubrication points. The fitting is designed only for the connection of the pressure plastic tube (Ø 6 x 1.5 mm).

Male connector, push-in type, with reinforced collar



Design with reinforced collar		
GEKV 6510-6-M6x1-S03	6 mm	226-14111-4
GEKV 6510-6-M8x1-S03	6 mm	226-14111-2
GEKV 6510-6-M10x1-S03	6 mm	226-14111-3
GEKV 6510-6-1/8-S01	6 mm	226-14111-1

Important: Use this fitting only for the connection of the lubrication points, if the pressure plastic tube (Ø 6 x 1,5 mm) will be replaced by high pressure plastic hose (Ø 8.6 x 2.3 mm).

Subject to change without notice

Male elbow, push-in type



Model	Tube diameter	Part no.
Design with knurled collar		
WEK 6500-4-M 6x1-S01	4 mm	226-13753-5
WEK 6500-4-M 8x1-S01	4 mm	226-13753-1
WEK 6500-4-M 10x1-S01	4 mm	226-13753-2
WEK 6500-4-1/8-S01	4 mm	226-13753-3
WEK 6500-6-M 6x1-S01	6 mm	226-13753-7
WEK 6500-6-M 8x1-S01	6 mm	226-13753-8
WEK 6500-6-M 10x1-S01	6 mm	226-13753-6
WEK 6500-6-1/8-S01	6 mm	226-13753-4

Important: Use this fitting **only** for the connection of the lubrication points. The fitting is designed only for the connection of the pressure plastic tube (Ø 6 x 1.5 mm).

Male elbow, push-in type, with reinforced collar



Design with reinforced collar		
WEKV - 6500-6-M6x1-S03	6 mm	226-14123-4
WEKV - 6500-6-M8x1-S03	6 mm	226-14123-2
WEKV - 6500-6-M10x1-S03	6 mm	226-14123-3
WEKV - 6500-6-1/8-S02	6 mm	226-14123-5

Important: Use this fitting only for the connection of the lubrication points, if the pressure plastic tube (Ø 6 x 1.5 mm) will be replaced by high pressure plastic hose (Ø 8.6 x 2.3 mm).

Male elbow, push-in type, rotatable



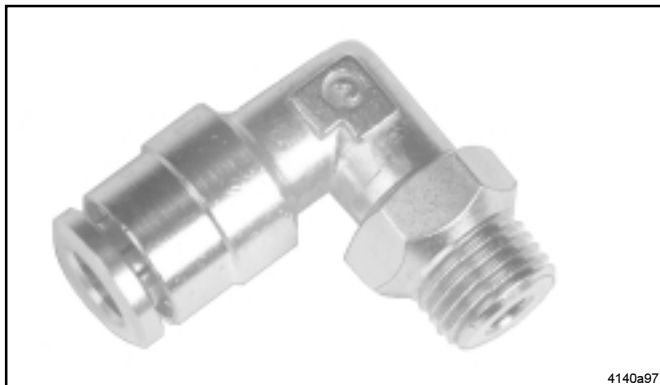
Model	Tube diameter	Part no.
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Design with knurled collar

WEDK 6520-4-M 8x1-S01	4 mm	226-13756-1
WEDK 6520-4-M 10x1-S01	4 mm	226-13756-2
WEDK 6520-6-M 6x1-S01	6 mm	226-13756-7
WEDK 6520-6-M 8x1-S01	6 mm	226-13756-4
WEDK 6520-6-M 10x1-S01	6 mm	226-13756-5
WEDK 6520-6-1/8-S01	6 mm	226-13756-8

Note: Use only for occasional rotary motions, pivoting angle < 180 °. For other applications use a straight rotary swivel, 90° or a similar fitting.

Male elbow, push-in type, rotatable, with reinforced collar



Design with reinforced collar

WEDKV 6520-6-1/8-S02	6 mm	226-13756-9
WEDKV 6520-6-M10x1-S02	6 mm	226-14157-2
WEDKV 6520-6-M8x1-S02	6 mm	226-14157-1
WEDKV 6520-6-M6x1-S99	6 mm	226-14157-3

Important: Use this fitting only for the connection of the lubrication points, if the pressure plastic tube (Ø 6 x 1.5 mm) will be replaced by high pressure plastic hose (Ø 8.6 x 2.3 mm).

Banjo connector



Model	Part no.
SWVZ 6-1/8	504-36893-1

T - piece, push-in type (reinforced)



Model	Part no.
TSV 6540-6-S02	226-14097-4

Note: Use only for combining two lubricant quantities, either from the main metering device to a secondary metering device or back to the pump. Designed for high-pressure plastic hose (Ø 8.6 x 2.3 mm) with hose stud and groove.

T - piece, push-in type



Model	Part no.
TS 6540-6-S01	226-14097-2

Note: Use only for combining two lubricant quantities. Designed for pressure plastic tube (Ø 6 x 1.5 mm) for the connection from a secondary metering device to a lubrication point

Line connector, push-in type



Model	Part no.
GS 6580-4 for pressure plastic tube Ø 4 x 1 mm	226-13773-1
GS 6580-6-S01 for pressure plastic tube Ø 6 x 1.5 mm	226-13773-3
GSV 6580-6-S02 for high-pressure plastic hose (Ø 8.6 x 2.3 mm), with hose stud and groove	226-13773-4

Note: to be used for the repair of high-pressure plastic hose and pressure plastic hose.

Line connector, push-in type

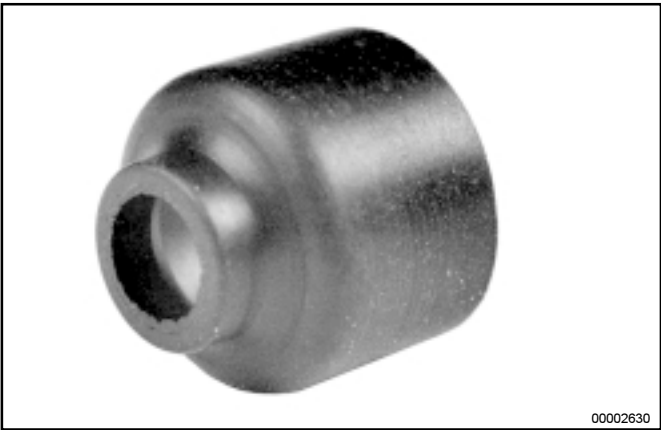


Model	Part no.
D 6x1.5 For high-pressure plastic hose (Ø 8.6 x 2.3 mm), with hose stud and groove	432-24280-1

Note: Use in conjunction with T-piece 226-14097-4

2.0A-20001-E01

Protecting cap for push-in type fittings

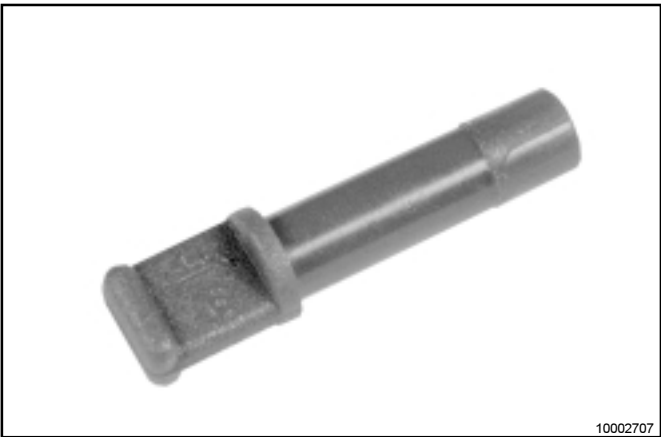


Part no.

432-24313-1

Note: For the protection against humidity and dirt

Closure plug



Ø mm

Part no.

D 6

226-13797-3

Note: For closing the return line connection on the pump

Assortment case



Designation

Part no.

QUICKLUB assortment case

604-28196-1

Note: For the completion or repair of QUICKLUB progressive systems.

Lines and Accessories

High-pressure plastic hose , filled with grease



Designation	Dimensions	Part no.
High-pressure plastic hose Ø 8.6 x 2.3 mm		504-36033-3
Max. operating pressure	350 bar	
Min. bursting pressure with hose coupling,screwed) at 20 ° C	600 bar	
Temperature range	-40 ° C to + 70 ° C	
Min. bending radius	35 mm	
Roller, max. length	50 m	

Pressure plastic tube, filled with grease



Item	Designation	Dimensions	Part no.
1	Press. plastic tube	Ø 6x1.5 mm	504-36041-2
Burst pressure at 20° C	approx.. 210 bar		
Min. bending radius	50 mm		

High-pressure plastic hose , without grease filling



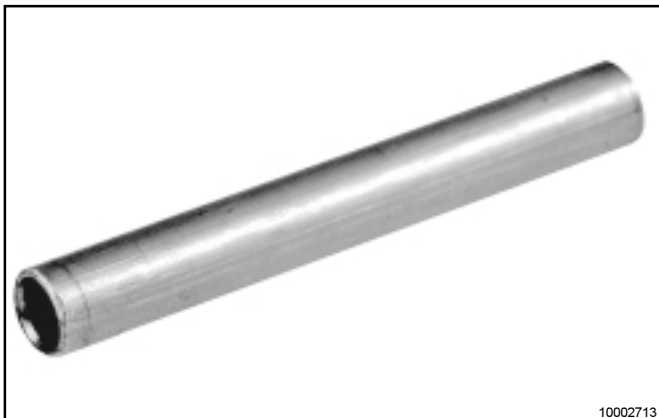
Designation	Dimensions	Part no.
High-pressure plastic tube	Ø 8.6 x 2.3 mm	111-35114-1
Max. operating pressure	350 bar	
Min. bursting pressure (with hose coupling, screwed) at 20 ° C	600 bar	
Temperature range	-40 ° C to + 70 ° C	
Min. bending radius	35 mm	

Subject to change without notice

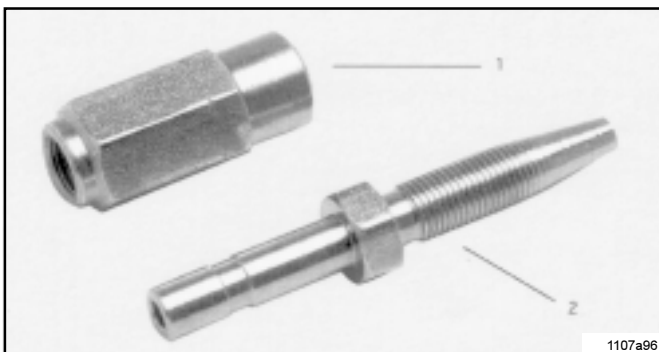
Pressure plastic tube, without grease filling



Steel tube



**Threaded sleeve and hose stud
(High-pressure plastic hose)**



**Hose couplings
(only suitable for hydraulic presses)**

Item	Designation	Dimensions	Part no.
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1 pressure plastic tube* Ø 4x1 mm 112-35127-7

Bursting pressure at 20° C approx. 210 bar
Min. bending radius 50 mm

**Note: Don't use pressure plastic tube for dispensing grease in the case of system used for commercial vehicles.*

1 pressure plastic tube Ø 6x1.5 mm 112-35127-2

Bursting pressure at 20° C approx. 210 bar
Min. bending radius 50 mm

Abmessung	Part no.
-----------	----------

Standard

6x1 mm 105-35019-1
8x1 mm 105-35019-2

Galvanized

6x1 mm 105-35025-2
8x1 mm 105-35025-3

High-grade steel 1.451

6x1 mm 106-35064-4
8x1 mm 106-35063-1

High-grade steel 1.4571

6x1 mm 106-35203-4
8x1 mm 106-35203-3

Item	Designation	Ø mm	Part no.
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standard

1	Threaded sleeve		432-23031-1
2	Hose stud, short	6	432-24162-1
	Hose stud, long	6	432-23067-1
	Hose stud, 90°, short	6	532-30739-1
	Hose stud, 90°, long	6	532-30738-1

High-grade steel

1	Threaded sleeve		432-23676-1
2	Hose stud, short	6	432-23675-1

Designation	Ø mm	Part no.
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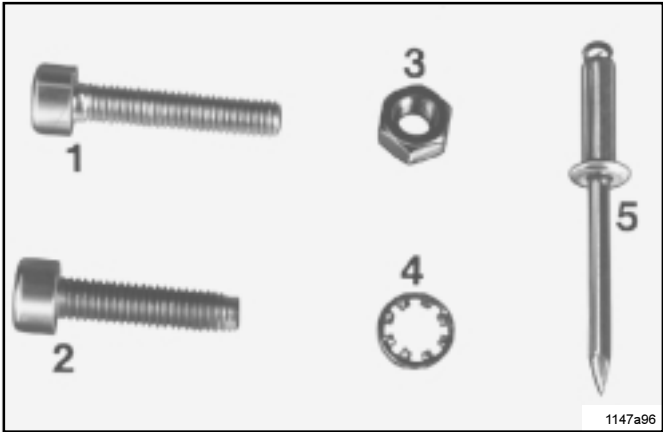
Hose coupling, squeezed, straight	6	532-30991-1
Compression sleeve for hose,	6	432-23787-1
Hose stud	4	432-21785-4
Hose stud	6	432-23781-1
Hose stud 90°	6	432-24259-1
Hose stud, high-grade steel	6	432-23777-1

Tube clamp with rubber lining



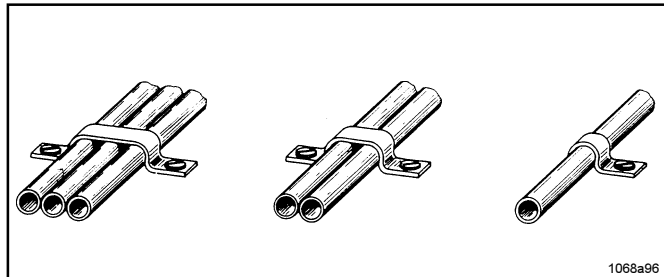
Tube diameter in mm	Fixing borehole in mm	Part no.
6	5.5	226-12557-1
9	5.5	226-12557-2
10	5.5	226-12557-7
12	5.5	226-12557-3
15	5.5	226-12557-4
20	5.5	226-12557-6

Fixing parts for tube clamp



Item	Designation	Dimensions	Part no.
1	Pan head screw	AM 5x16 C	201-12040-7
	Hexagon head screw	M 5x45 C	200-13017-5
2	Self-tapping screw	EM 5x16 Z	206-13710-1
		CM 5x40 Z	206-13710-2
3	Nut	M 5 C	207-12138-2
4	Tooth lock washer	J 5.3 Z	210-12161-9
5	Blind rivet	D 4x12	206-12584-1

Tube clamp



Number of Tubes	Tube diameter	Part no.
1	6 mm	226-12336-1
2	6 mm	226-12336-2
3	6 mm	226-12336-3
4	6 mm	226-12336-4
5	6 mm	226-12336-5
6	6 mm	226-12336-6
1	8 mm	226-12337-1
2	8 mm	226-12337-2
3	8 mm	226-12337-3
4	8 mm	226-12337-4
5	8 mm	226-12337-5
6	8 mm	226-12337-6

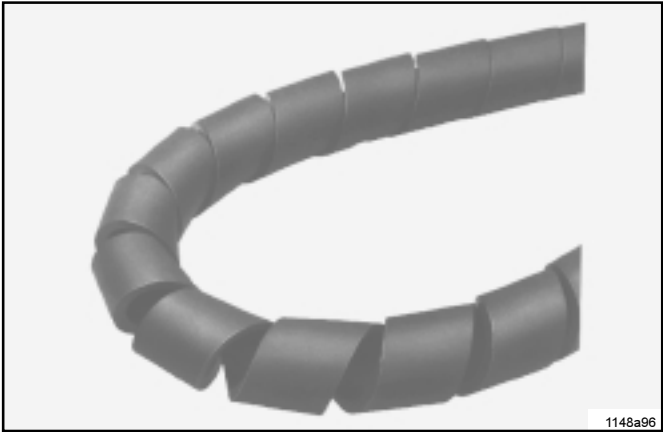
Self-tapping screw

galvanized	M 4 x 8	206-12123-3
galvanized	BM 6 x 12	206-12125-3

Tube clamp (high-grade steel 1.4571)

Number of Tubes	Tube diameter	Part no.
1	6 mm	226-13716-1
2	6 mm	226-13716-2
3	6 mm	226-13716-3
4	6 mm	226-13716-4
5	6 mm	226-13716-5
1	8 mm	226-13717-1
2	8 mm	226-13717-2
3	8 mm	226-13717-3
4	8 mm	226-13717-4
5	8 mm	226-13717-5

Plastic helix



Diameter in mm	Part no.
6	113-35075-2
12	113-35075-3

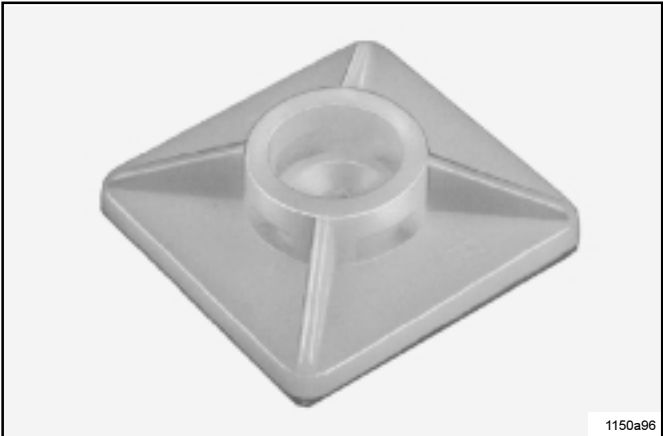
The plastic helix is used to bundle several tubes together. It also protects the tubes against wearing in the case of moving lubrication points.

Hose strap



Designation	Part no.
short	226-12490-3
long	226-13095-1

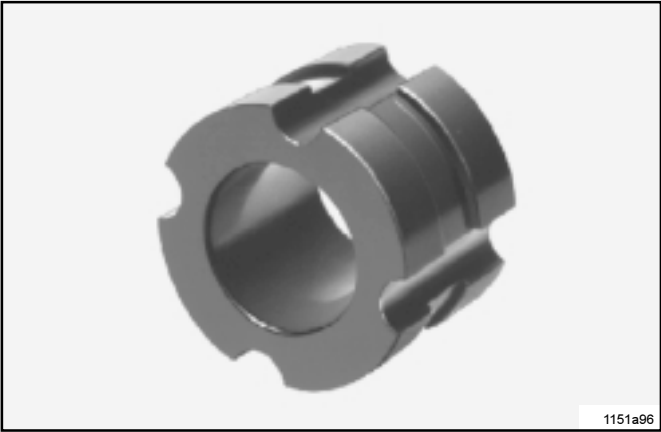
Adhesive clamp



Dimensions	Part no.
28 x 28 mm	226-13095-6

For attachment of pressure plastic tubes (\varnothing 6x1.5 mm), this clamp is glued to a smooth part on the vehicle frame. Attach the pressure plastic tubes to the adhesive clamp by means of a hose strap.

Spacer



Part no.
432-23774-1

For the attachment of pressure plastic tubes (\varnothing 6x1.5 mm) to existing tubes lines. Attach the pressure plastic hoses and the spacer by means of hose strap.
Material: CR (Clorophene-caoutchouc)

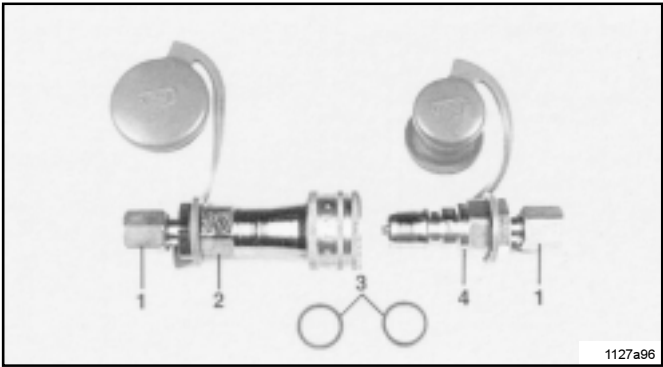
Cable sleeve



For tube diameter	Part no.
6 mm	237-13375-1
9 mm	237-13375-2
15 mm	237-13375-3

Used for the connections on the frame, etc.

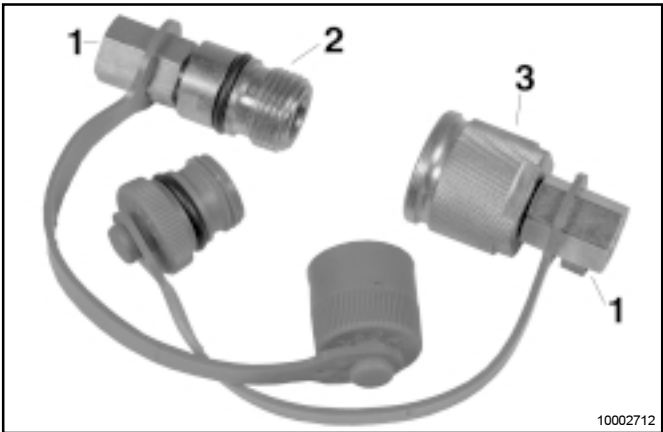
*Push-in type coupling without return line connection
(cannot be coupled under pressure)*



Item	Designation	Part no.
	Coupling assy, consisting of :	504-36804-5
1	GE 6 - LG1/4 AC	223-12477-8
2	Coupling with dust protection	504-32125-1
3	Copper washer 14x18x1.5	209-12158-6
4	Nipple with dust protection	251-14073-1

Important: If the system is put into operation although items 2 and 4 are separated, the coupling (item 2) must be connected to the pump via a return line.

*Push-in type coupling without return line connection
(can be coupled under pressure)*



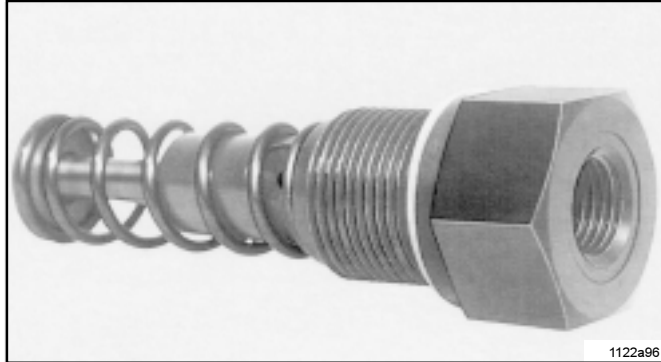
Item	Designation	Part no.
	Coupling assy, consisting of :	504-36804-6
1	GE 6 - LG1/4 AC	223-12477-8
2	Nipple with dust protection	251-14073-4
3	Coupling with dust protection	226-13728-2
	Copper washer 14x18x1.5	209-12158-6

Important: If the system is put into operation although items 2 and 3 are separated, the coupling (item 3) must be connected to the pump via a return line.

Accessories

Accessories for Central Lubrication Pumps Models 203 and 103

Pump elements with fixed lubricant output

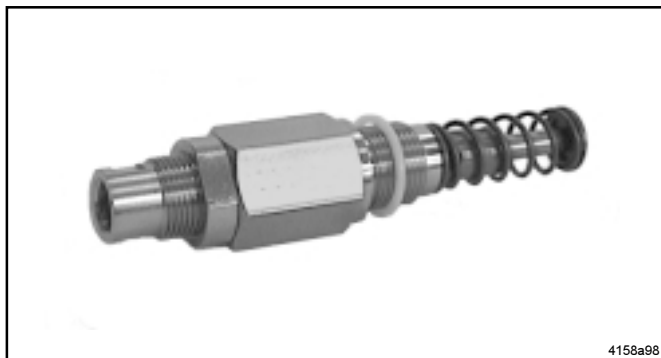


Type	Piston Ø in mm	Thread male	Lub. output cm³/min	Thread female	Part no.
K 5	5	M22x1,5	2.0	G¼	600-26875-2
K 6	6	M22x1,5	2.8	G¼	600-26876-2
K 7	7	M22x1,5	4.0	G¼	600-26877-2
C*7	7	M22x1,5	4.0	G¼	600-28750-1

The 203 pumps which are designed for use on commercial vehicles are equipped with one pump element K6. For industrial applications, select the pump elements acc. to the a. m. table. Each further pump element must be **secured with a pressure relief valve**. See under **pressure relief valves**.

*Pump element for supplying of chisel paste

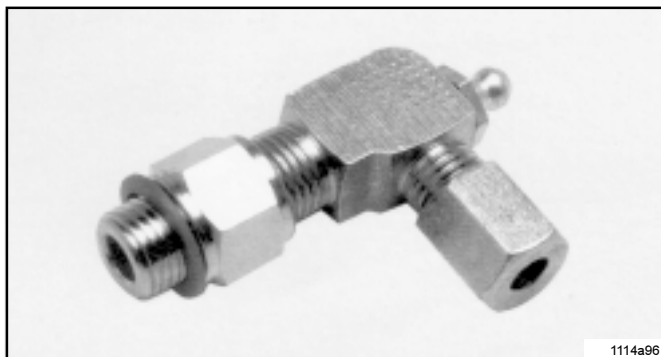
Pump element with adjustable lubricant output



Type	Piston Ø in mm	Thread male	Lub. output cm³/min	Thread female	Part no.
KR	7	M22x1,5	0.7 - 3.0	G¼	655-28716-1

Each further pump element must be **secured with a pressure relief valve**. See under **pressure relief valves**.

Return line connector with filling nipple



Designation	Part no.
Return line connector for pump with 2 l reservoir	504-30698-1
Return line connector with adapter and straight filling nipple for pump with 2 l flat-type reservoir, 4-l -, 8-l reservoir	504-36071-5
Return line connector with adapter and 90 ° filling nipple	504-36071-6

The return line connection with filling nipple is designed to feed **not required** grease quantities **back into the pump**. It is installed instead of a normal filling nipple.

2.0A-20001-E01

Return line connector, push-in type and screw-type



Designation	Part no.
Return line connector, push-in type	
Adapter M 22 x1.5a x G1/8 i	304-19619-1
WEDK 6520-6-1/8-S01	226-13756-8
Closure plug D6	226-13797-3
Return line connector, screw-type	
Adapter M 22 x1.5a and G 1/8i	304-19619-1
WE 6-LLR1/8 KC*	223-12485-9
Adapter M 22 x1.5 x R 1/4 IC	304-17571-1
GE 6-LG1/4 AC*	223-12477-8
Cylinder pin	215-12194-4

**Note: Other fittings with 1/8 m thread are deliverable on request.*

The return line connection is designed to feed **not required** grease quantities **back into the pump**. It is installed instead of a closure plug (pump element).

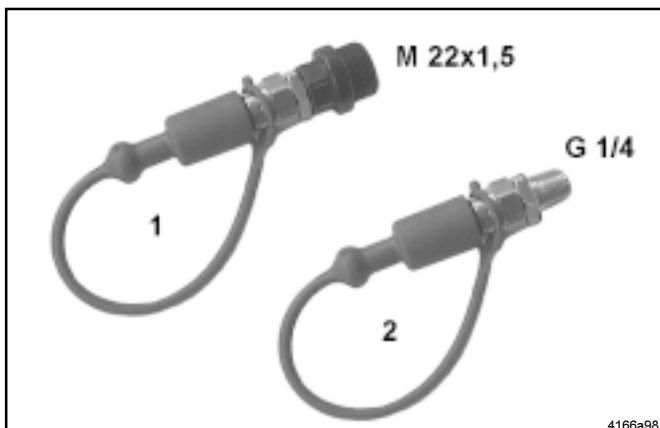
Quick filling connection, pumps 203, with integrated filter



Designation	Thread	Part no.
Filling nipple without coupling plug	M 22x1.5	504-36071-7
Coupling plug		504-32125-1
Filling nipple without coupling plug, assy		540-36753-5

For a quicker filling with a hand-operated or pneumatic pump

Quick filling connection, pumps 203, without integrated filter



Designation	Thread	Part no.
1 Filling nipple without coupling plug	M 22x1.5*	544-36961-2
2 Filling nipple without coupling plug	G1/4**	544-36961-1
Coupling plug		504-32125-1

For a quicker filling with a hand-operated or pneumatic pump

* Fitting borhole for pump element

** Fitting borhole for hydraulic filling nipple

Identification Code - Pressure relief valve

Examples:

SV		- 200	- R 3/8 A	
SV	TE	- 350	- R 1/4 A	- D 6
SV	EVT	- 350	- G 1/4 A	- D 8
SV	EVT	- 350	- M 14 x 1,5 i	- D 6
SV	S	- 350 - 6	- 1/4	- 6

Basic type :
SV = Safety valve

Design:
TE = with TE - fitting
EVT = with EVT - stud
S = cross-chaped fitting

Max. pressure: in bar (fixed setting)

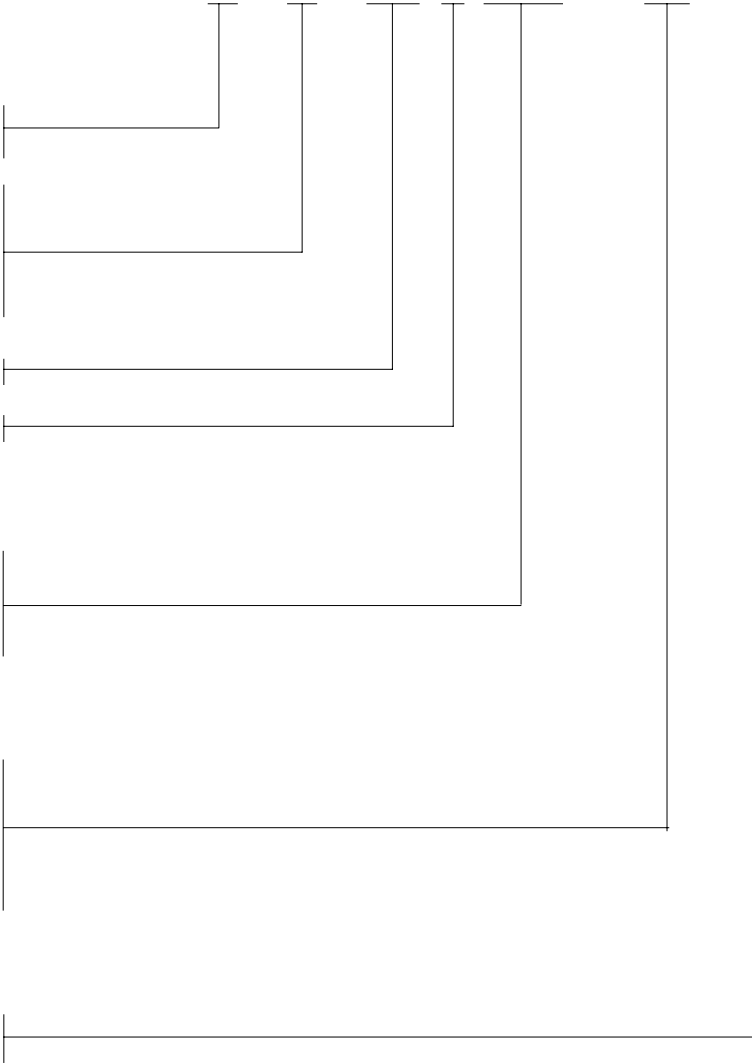
Connection for grease return

Type of connection :
(Pump element) :

R 1/4 A = Male thread R 1/4 tapered
G 1/4 A = Male thread G 1/4 cylindrical
M 14 x 1.5 i = Female thread M 14 x 1.5

Type of connection : :
(Main line) :

D 6 = Clamping ring for tube D 6
D 8 = Clamping ring for tube D 8
6 = Push-in type fitting for hose stud D 6



Pressure relief valve, screw-type
New model

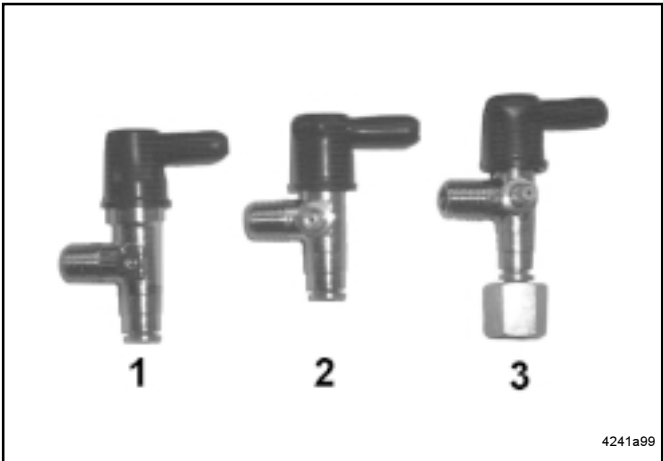


Design	Part no.
SVTE - 350 R 1/4 - D 6	624-28894-1
SVTE - 350 R 1/4 - D 6, trouble nipple 90° left-hand	624-28896-1
SVTE - 350 R 1/4 - D 6, trouble nipple 90° right-hand	624-28897-1
SVEVT - 350 G 1/4 - D 8	624-28895-1
SVTE - 270 R 1/4 - D 6	624-28892-1
SVTE - 270 R 1/4 - D 8	624-28893-1
SVTE - 200 R 1/4 - D 6	624-28894-1

Adapter for 2 l flat-type reservoir, 4- l, 8- l - reservoir	
Nipple S 2520 - 1/4 - 1/4 - 25	226-14105-5

Select a pressure relief valve convenient to the respective pump element

Pressure relief valve, push-in type
New model

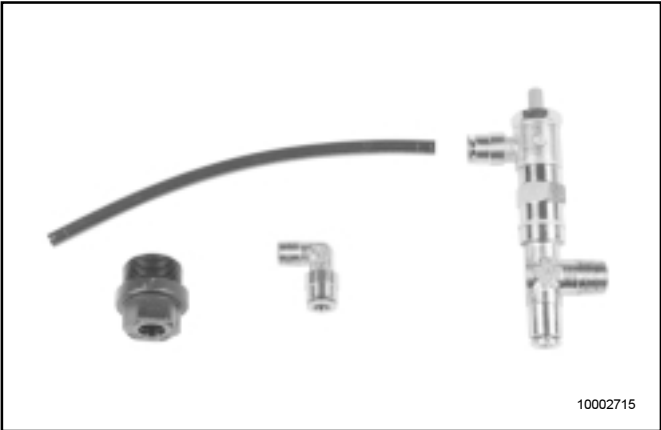


Item	Design	Part no.
1	SVTS - 350 - 1/4 - 6	624-28860-1
1	SVTS - 200 - 1/4 - 6	624-28861-1
2	SVTS - 350 - 1/4 - 6, trouble nipple, left-hand	624-28867-1
	SVTS - 350 - 1/4 - 6, trouble nipple, right-hand	624-28858-1
3	SVTS - 270 - 1/4 - 1/8 NPTF, trouble nipple, right hand	624-28859-1

Adapter for 2 l flat-type reservoir, 4- l, 8- l - reservoir	
Nipple S 2520 - 1/4 - 1/4 - 25	226-14105-5

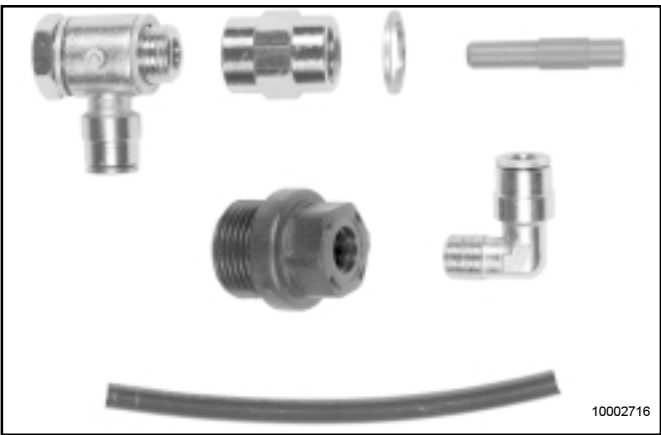
Select a pressure relief valve convenient to the respective pump element

**Kit : Pressure relief alve assembly with grease
return to the reservoir**



Design	Part no.
SVS - 350 - 6 - 1/4 - 6	624-28931-1

**Retrofit for safety valve assembly with grease
return to the reservoir**



Part no.
524-32025-1

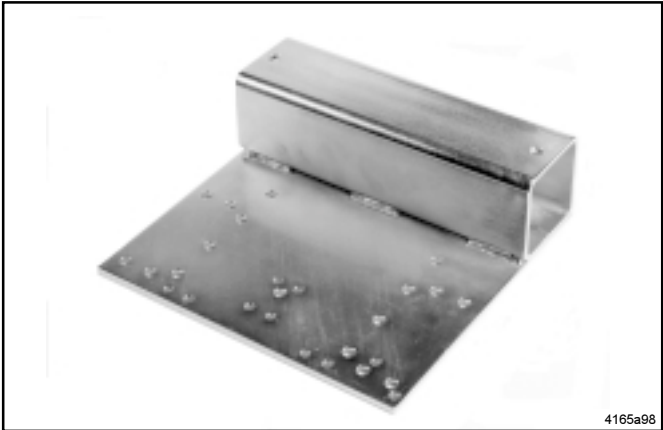
Cartridges for new models of pressure relief valves



Design	
Part no.	
Cartridge, SV 350 bar	235-14343-3
Cartridge, SV 270 bar	235-14343-2
Cartridge, SV 200 bar	235-14343-1

Note: Cartridges are marked with pressure designation, i. e. 350 on top of hex. surface.

Brackets



For fixing	Part no.
Pump model 103 or 203 , universal and main metering device	307-19544-1



For fixing	Part no.
Only pump model 203 and main metering device	307-19644-1

Subject to change without notice

Electrical Accessories for Central Lubrication Pump Model 103 CS and 203 without Control
p.c.b.

Hella control unit (only spare part for pump model 103)

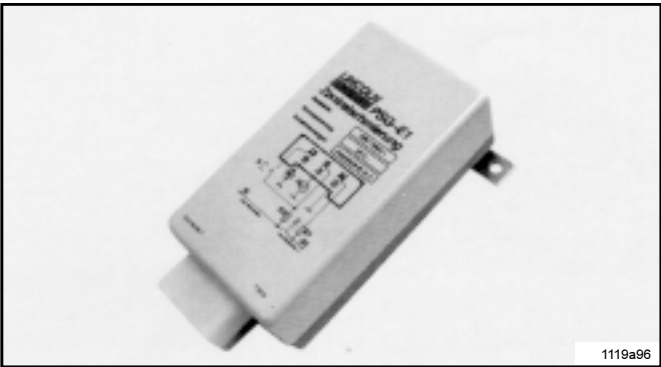


Voltage	Part no.
---------	----------

12 and 24 V	664-36074-7
-------------	-------------

Available only as a spare part- replacement type: see PSG control unit

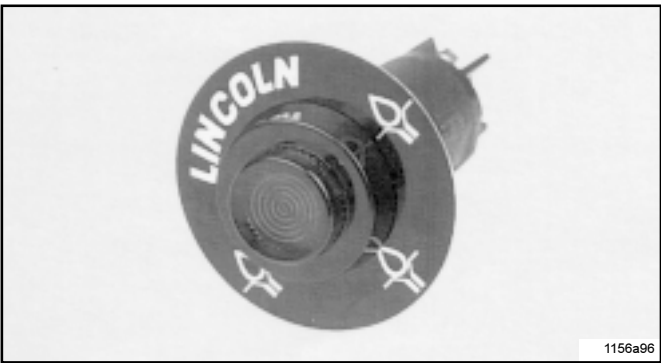
PSG control unit



Voltage	Time setting	Part no.
---------	--------------	----------

24 VDC	pause time : 6 Std. operating time : 2 Min.	236-13834-1
24 VDC	pause time : 4 Std. operating time: 4 Min.	664-36875-1

Illuminated pushbutton



Voltage	Lamp	Part no.
---------	------	----------

12 V	green	664-36070-5
24 V	green	664-36070-6

Fuse holder with 5 A fuse



Part no.

237-13321-8

The fuse holder with 5 A fuse must always be connected upstream of each control unit to protect the control unit against short-circuits

Subject to change without notice

Electrical Accessories for Metering Device Model SSV

Piston detector (proximity switch)



Designation	Length	Thread	Part no.
-------------	--------	--------	----------

Piston detector for monitoring of SSV metering devices (**new design**) with

cable without flanged plug	3 m	M11x1	234-13178-1
cable with flanged plug	3 m	M11x1	234-13178-2
cable without flanged plug(PU)	5 m	M11x1	234-43178-4
cable without flanged plug	7 m	M11x1	234-13178-5

high-grade steel (V4A) with

cable without flanged plug	2 m	M11x1	234-13178-3
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Note: The piston detector (proximity switch) is not part of the metering device

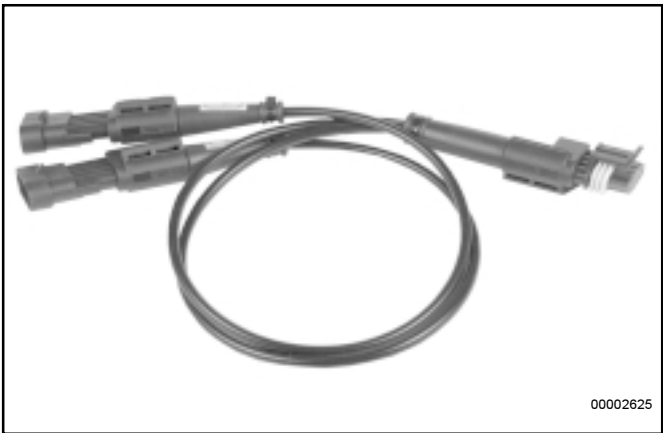
Extension cable for piston detector



Design	Length	Part no.
--------	--------	----------

Cable assembly with flanged plug and socket outlet	4 m	664-36862-9
--	-----	-------------

Connecting cable for two piston detectors



Design	Length	Part no.
--------	--------	----------

Cable assembly with two socket outlets	0,6 m	664-36889-6
--	-------	-------------

Detector cable



Design	Length	Part no.
Detector cable	10 m	664-36884-7

Note: For longer distances

Piston detector (proximity switch) for industrial application, high grade steel (1.4571)



Designation	Length	Thread	Part no.
Piston detector for monitoring of SSV metering devices with integrated socket without cable		M11x1	234-13178-1
Accessories:			
Socket			237-13442-4
Socket with cable	5 m		237-13442-3

Note: The piston detector (proximity switch) is not part of the metering device

Limit switch (KS), spare part only



Design	Part no.
Limit switch with accessories	519-36713-7
Limit switch V3S + VL1	236-13281-2

Proximity switch (KN), spare part only



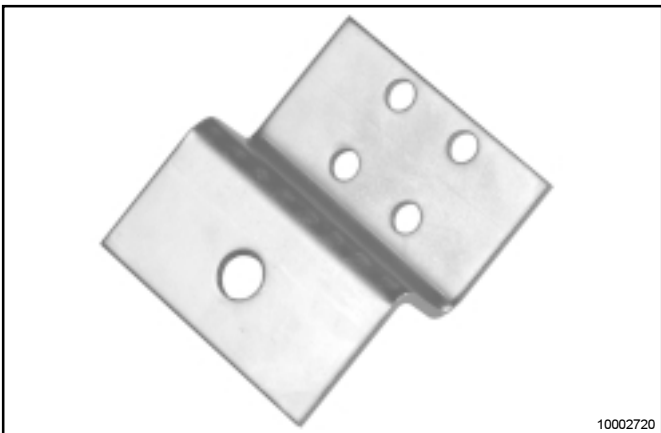
Design mode	Part no.	Switching
B I 2-G12K-AP6X	PNP	234-13134-3
B I 2-G12K-AN6X	NPN	234-13134-5
Adapter with fixing plate		519-30911-1

Accessories for SSV Metering Devices
Mounting angle



For Fixing of	Part no.
SSV metering devices	432-23982-1

Bracket

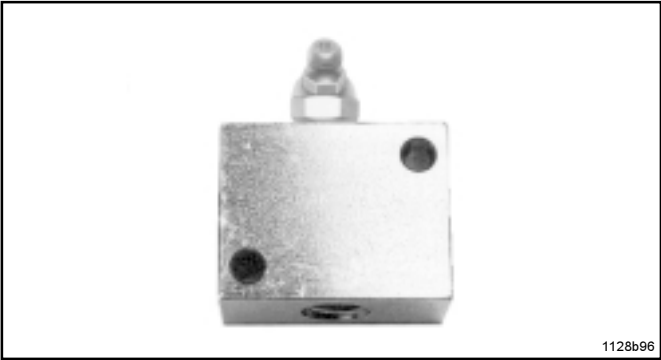


For Fixing of	Part no.
SSV metering devices	307-19543-1

Subject to change without notice

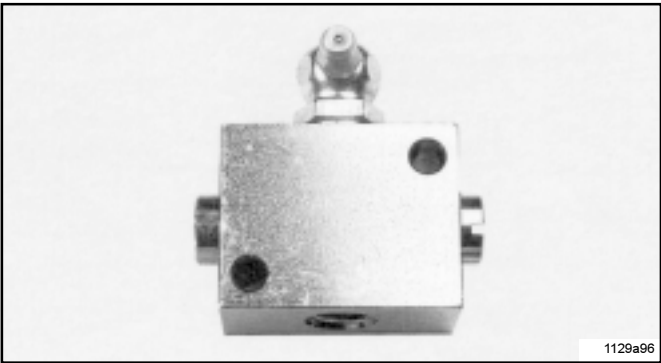
Accessories for Manually Operated Systems

Lubrication fitting blocks, screw-type

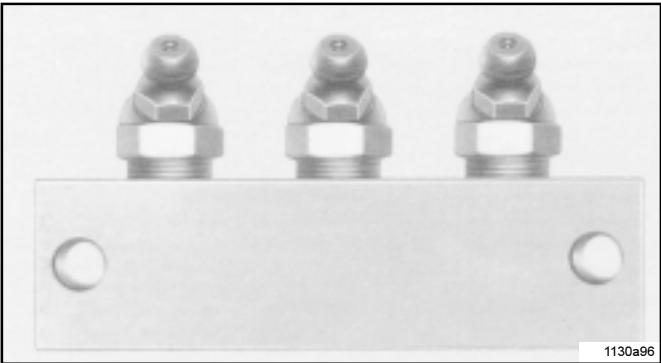


Number lub. nipples	Thread	Part no.
1 without check valve	R 1/8 female	504-32248-1

If the metering device is installed at a place difficult of access for the lubrication, the lubrication points are made accessible by using lubrication fitting blocks or tube filters.



No. of lub. nipples	Thread	Part no.
1 with check valve	R 1/8 female	504-37184-2



No. of lub. nipples	Thread	Part no.
2	R 1/8 female	504-37210-1
3	R 1/8 female	504-37211-1

Nipple block, push-in type

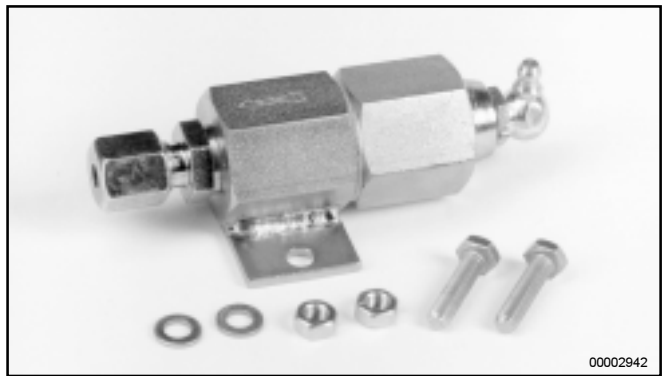


Part no.

532-32131-1

Lubrication nipple with check valve
Connection for high-pressure plastic hose with hose stud and threaded sleeve.

Tube filter

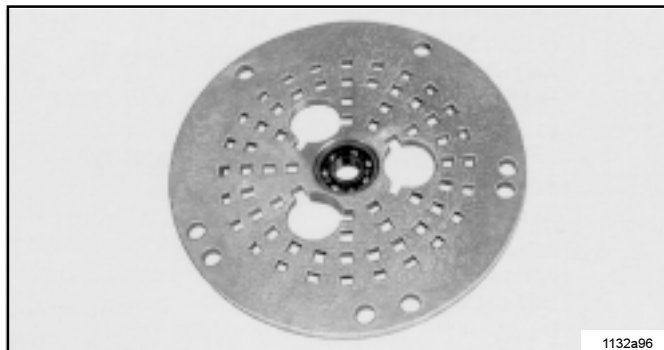


Designation	Thread	Part no.
SF1-G $\frac{1}{4}$ +Hydraulic lubrication fitting	G $\frac{1}{4}$ female	628-36062-3

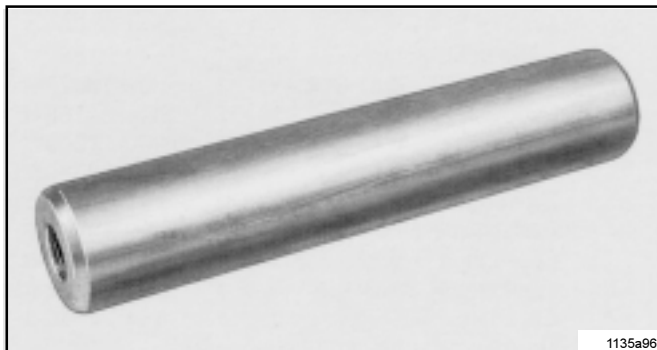
The tube filter is an additional protection in application areas where there is a strong pollution (e. g. erection sites, etc.)

Lubrication filter SF1-G $\frac{1}{4}$	628-26452-2
Filter	428-21544-1
Hydraulic lubrication fitting	532-31537-2

Tools



Centering tool for motor assembly, pump 103
Part no. : 504-31720-1



Chasing tool for rotary shaft seal
Part no. : 404-23819-1



Special screwdriver for closure plugs on SSV metering devices
Part no.: 404-22614-1

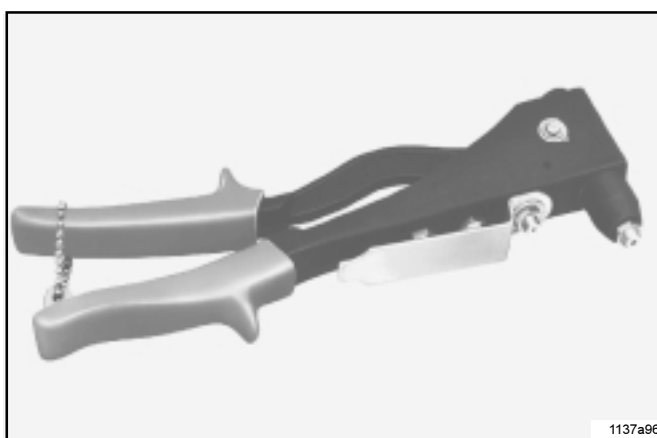


Assembly stud for hose coupling
Part no. : 432-23077-1



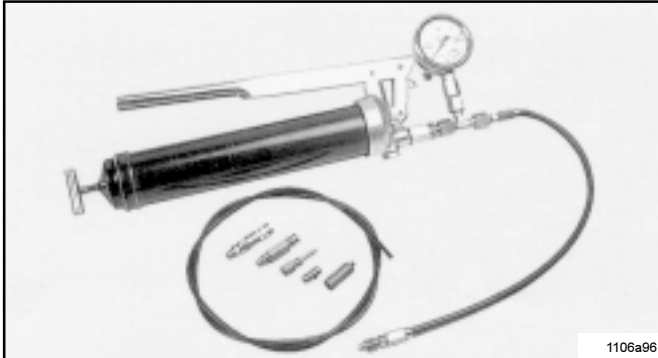
Special cutter for plastic tube
Part no. : 226-12508-5

Spare blade
Part no. : 226-13095-7

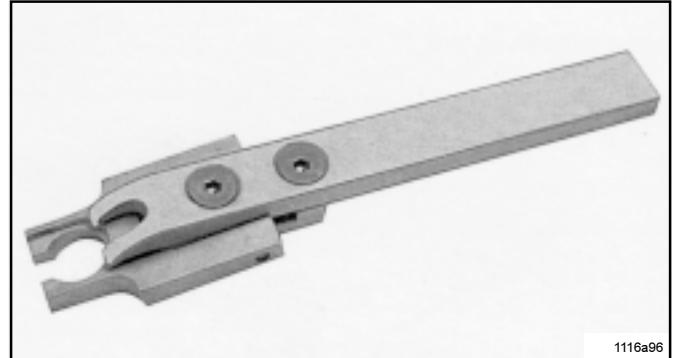


Blind rivet hand tool **Part no. :** 226-12508-6

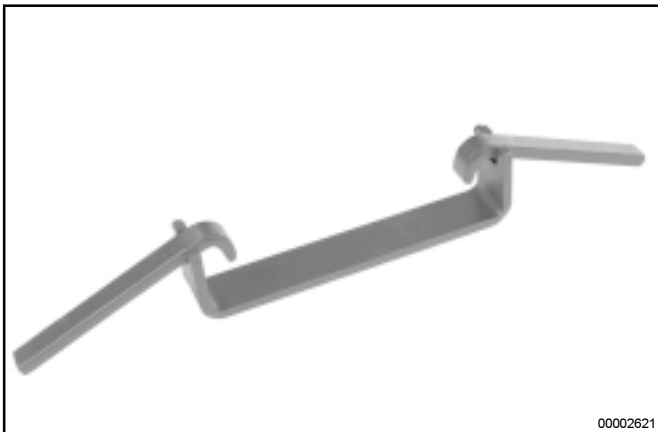
Squeezing device for compression sleeve 226-12490-1
Part no. : 226-12490-2
only suitable for hose studs 432-22539-1
432-22488-2



Set for checking pressure and function
Part no.: 604-36879-1



Special tool for loosening the push-in type fittings
Part no.: 532-31847-1



Assembly tool for adapter ring, 4- and 8 L reservoirs
Part no. : 544-32017-1



Assembly tool for 2-l reservoir
Part no. : 544-32019-1



Assembly tool for 2-l flat-type reservoirs, 4-l and 8-l reservoirs
Part no. : 544-32018-1

Filling Pumps

Pump for Cartridge Filling (400cm³ Cartridge)

Kit: Filling pump with straight connection fitting



Part no.	
638-37549-1	
Protective plug, pump	233-13124-8
Protective cap, fitting	233-13090-9

Kit: Filling pump with 90 °connection fitting



Part no.	
638-37548-1	
Protective plug, pump	233-13124-8
Protective cap, fitting	233-13090-9

Kit: Filling pump with 90 °connection fitting (2-l flat-type, 4-l, 8-l reservoir)



Part no.	
638-37561-1	
Protective cap, fitting	233-13090-9

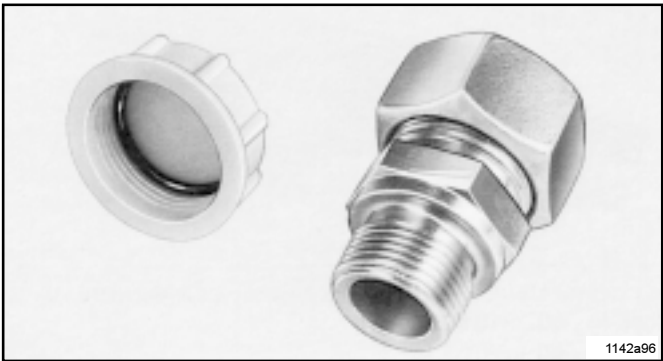
Filling pump without connecting parts



Part no.

244-14161-1

Connection fitting, straight (2-l reservoir)



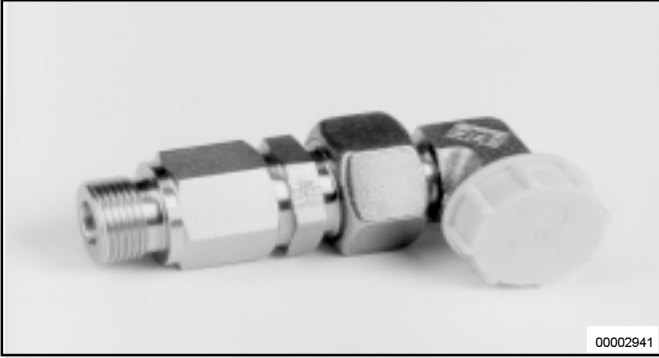
Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-1

Connection fitting, 90° (2-l reservoir)



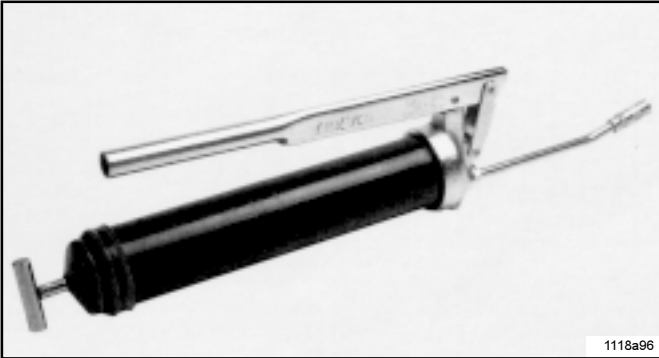
Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-2

Connection fitting, 90° (2-l flat-type, 4-l, 8-l reservoir)



Thread 1	Thread 2	Part no.
M 22 x 1.5	M 26 x 1.5	538-36763-4

Lever gun



	Part no.
Holding clamp	001142 082760

Pumps, Hand-Operated, for Greases to NLGI grade 2



Drum weight	stationäry	mobile	Part no.
25 kg	X		244-14125-2
50 kg	X		244-14125-3
25 kg		X	244-14126-2
50 kg		X	244-14126-3
Reservoir Ø for 25 kg			311 - 330 mm
Reservoir Ø for 50 kg			365 - 385 mm

Note: The filling is made via a hydraulic coupling. Coupling counterpart to use: see under "Quick filling connection for pump 203 "

Accessories for the filling of the lubrication fittings:	
1 x mouth piece	905852-E
1 x reducing nipple R1/4 x R1/8 Z	222-12258-2
1 x filling nipple	251-14073-1
1 x seal ring	226-13780-2
or reducing nipple	226-14105-9

Drilling Templates

Designation	Part no.
Central lubrication pump 203	810-55150-1
Metering devices SSV	810-55005-3

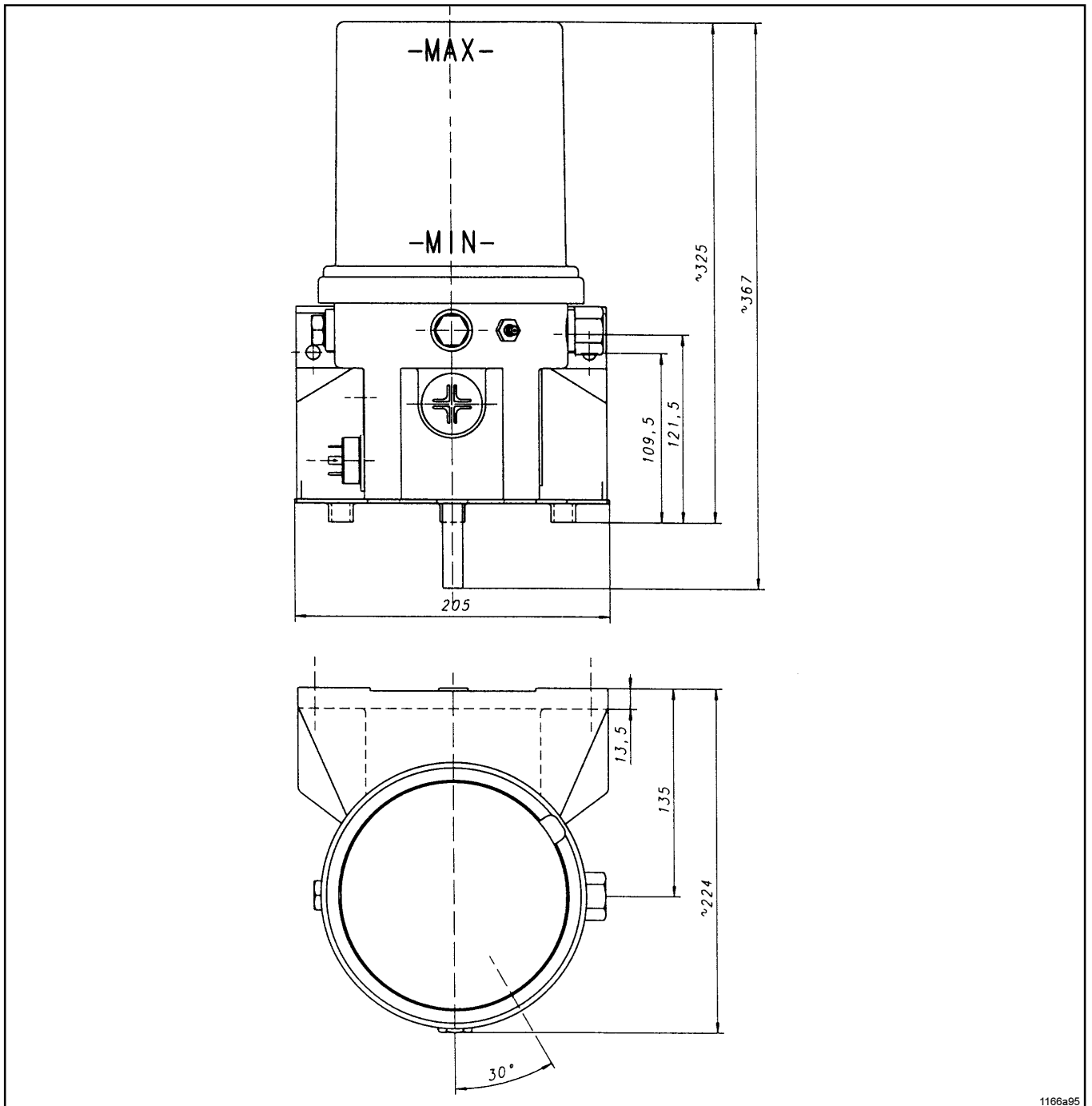
Operating Instructions

Designation	Part no.
Central lubrication pump 203	810-55168-1
Control p. c. b. H 236-13857-1	810-55170-1
Control p. c. b. V10 - V13 236-13891-1	810-55240-1
Control p. c. b. M 00 - M 15 236-13870-1	810-55172-1
Control p. c. b. M 16 - M 23 236-13870-1	810-55173-1
Metering device model SSV	810-55174-1

Dimensions

Pump 203

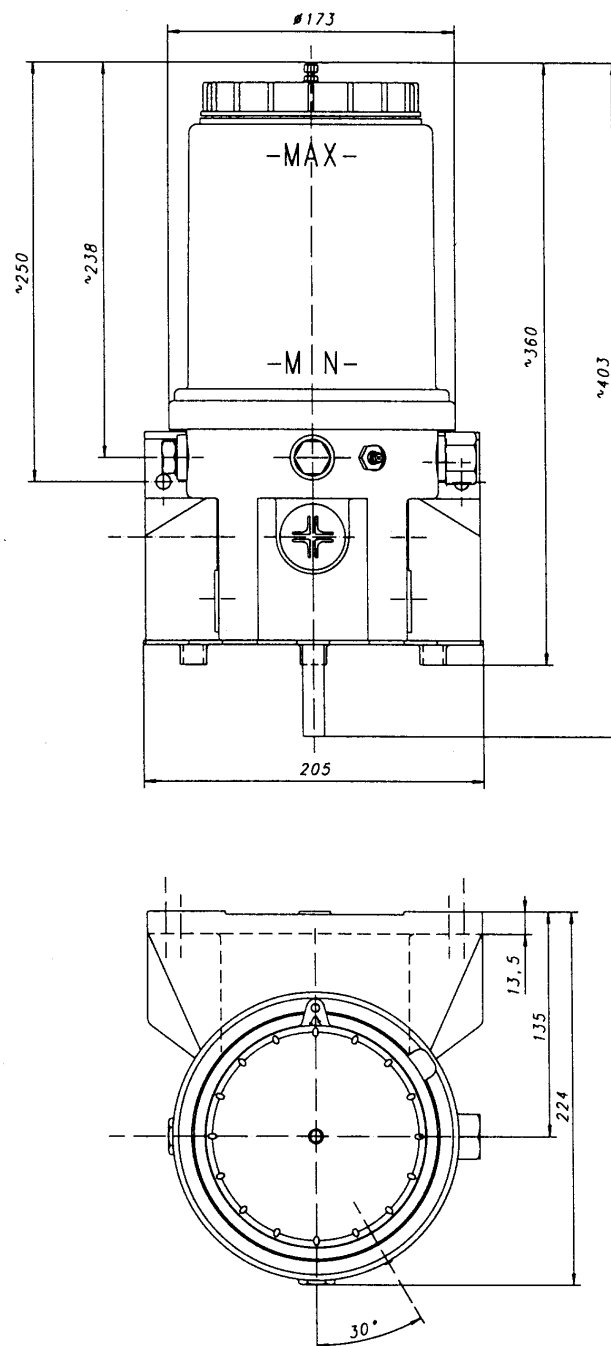
2-l Reservoir, Standard



Subject to change without notice

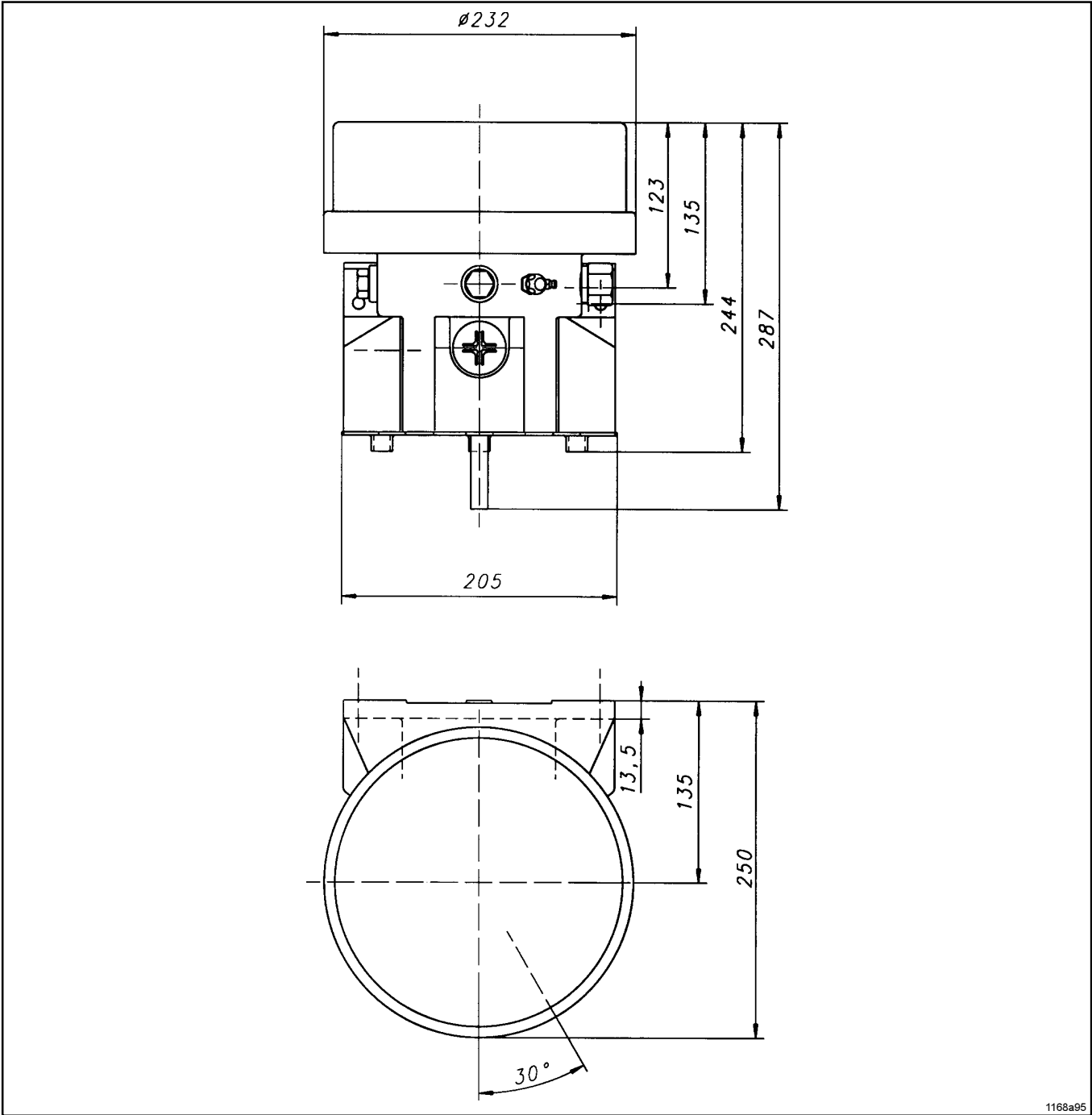
1166a95

2-l Reservoir , with Filling from Top



1167a95

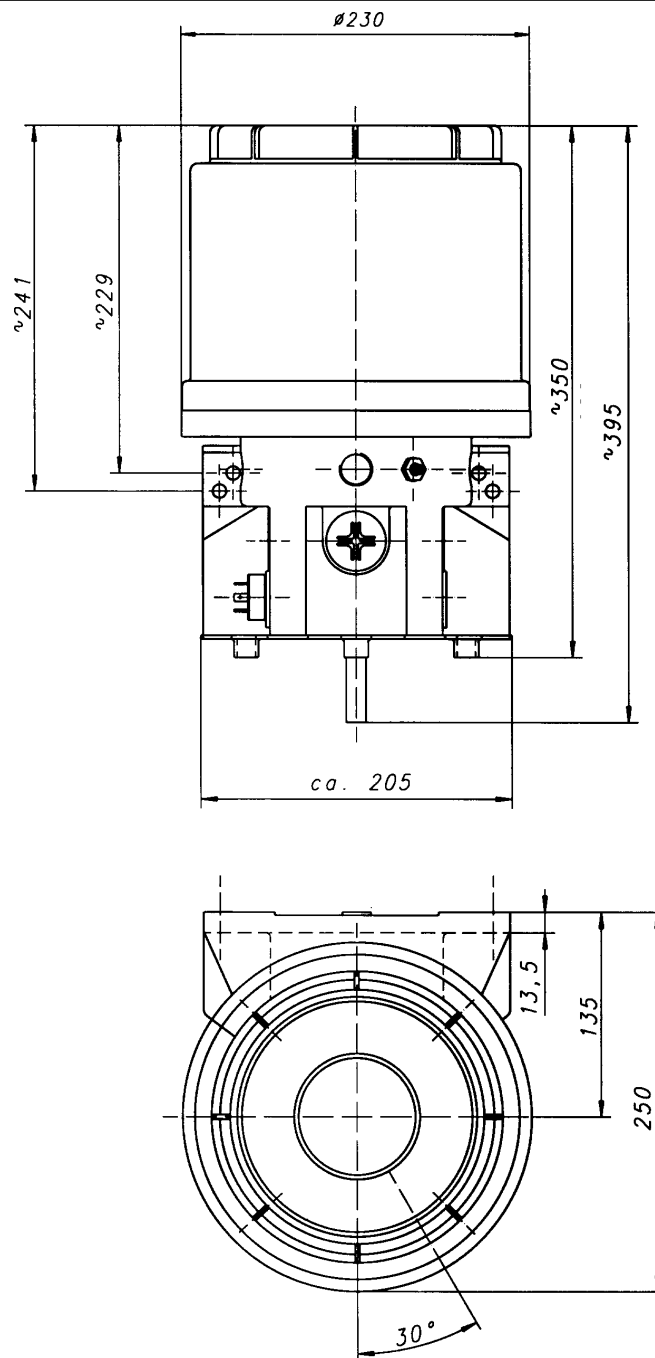
2-l Flat-Type Reservoir



Subject to change without notice

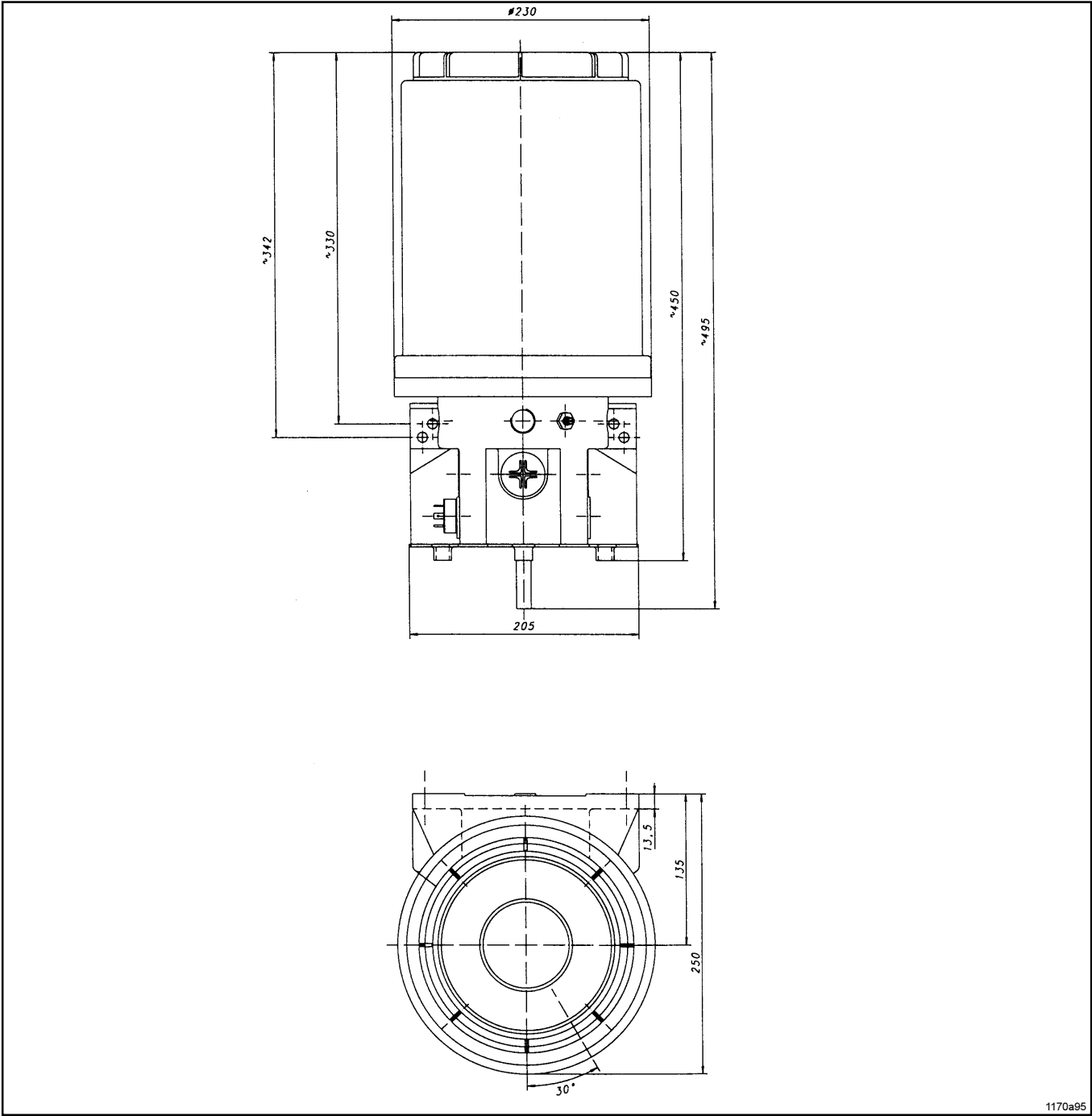
1168a95

4-l Reservoir



1169a95

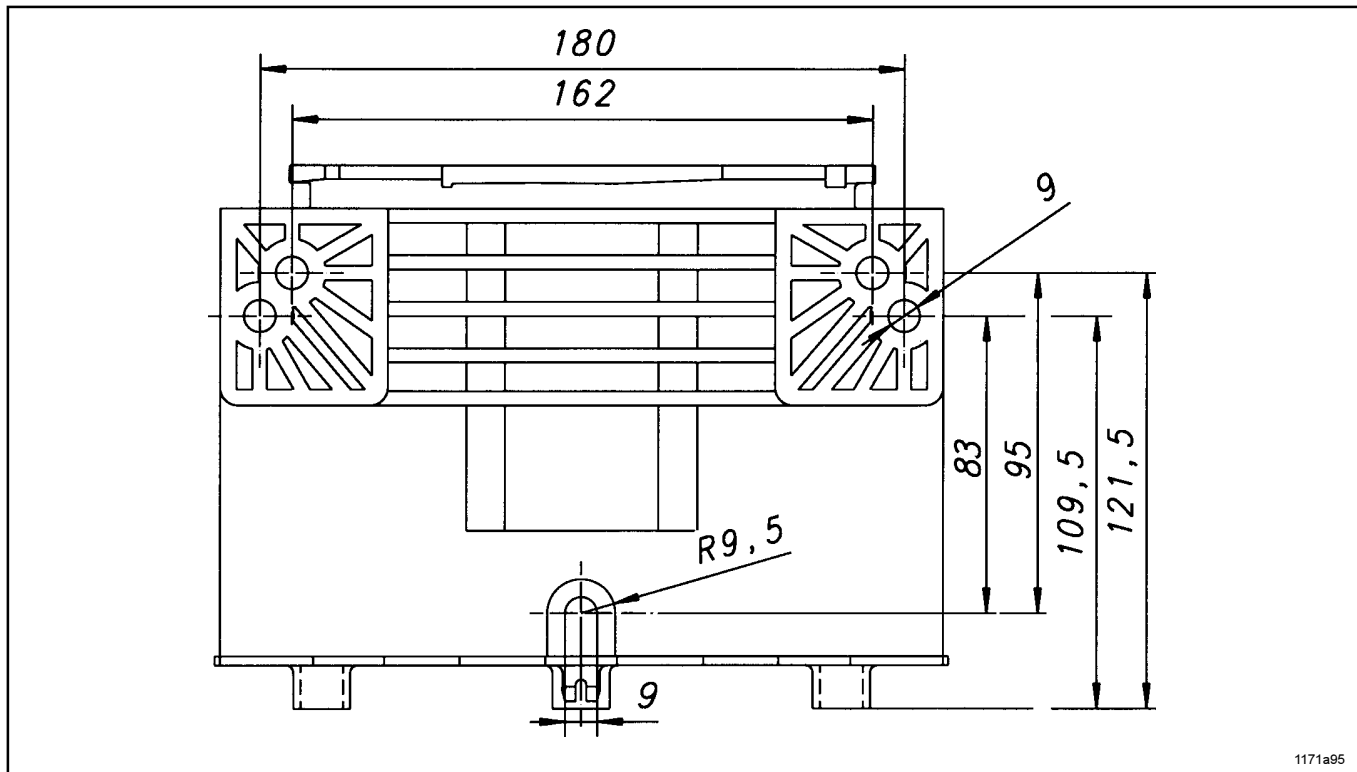
8-I Reservoir



Subject to change without notice

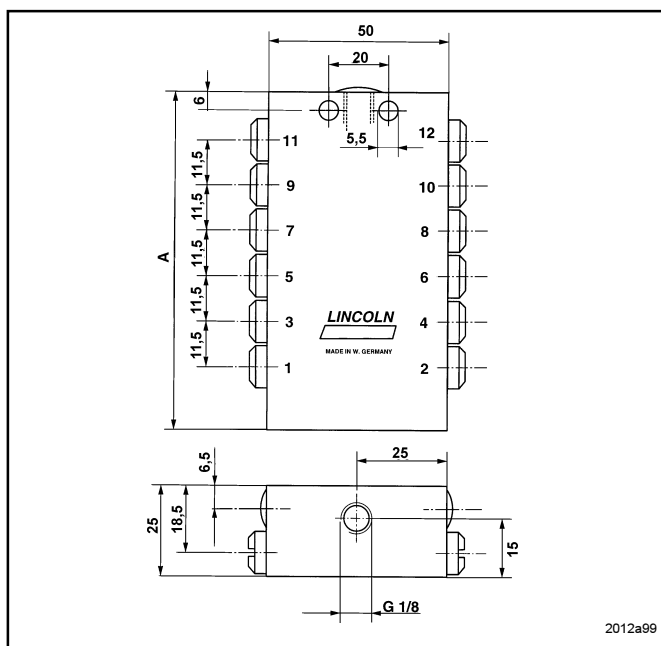
1170a95

Fixing Boreholes of the 2 l -, 4 l -, 8 l - Pump



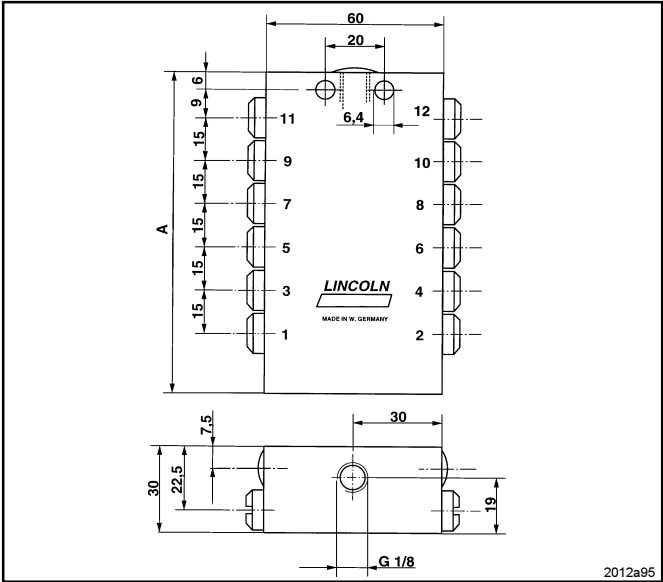
Note: Tighten pump models with 2-l Flat-type, 4-l and 8-l reservoirs with three fastening screws (on R 9.5).

Metering Devices Model SSV M SSVM 6 to SSVM 12 (Blocks)



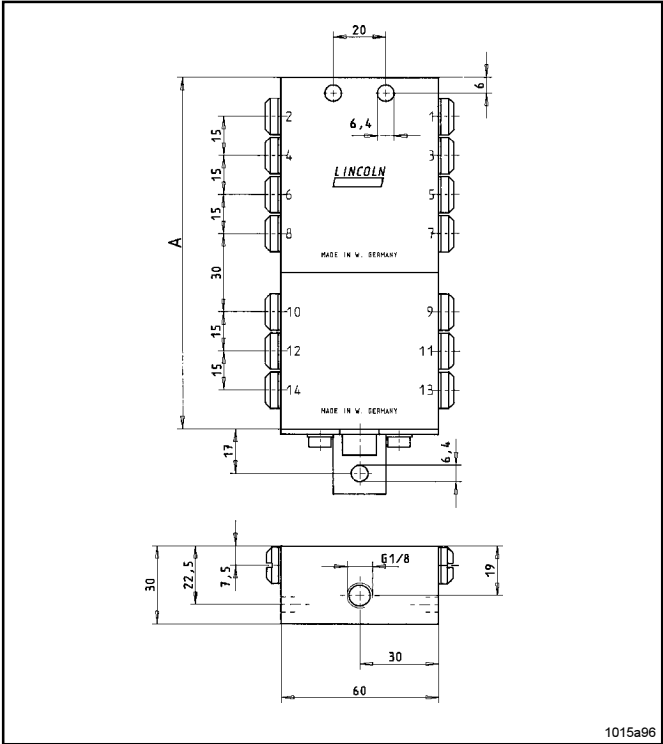
Model SSV M	Dimensions A in mm
6	48.5
8	60
10	71.5
12	83

Metering Devices Model SSV
SSV 6 to SSV 22 (Blocks)



Model SSV	Dimensions A in mm
6	60
8	75
10	90
12	105
14	120
16	135
18	150
20	165
22	180

SSV 14 to SSV 22 (Combined Blocks)

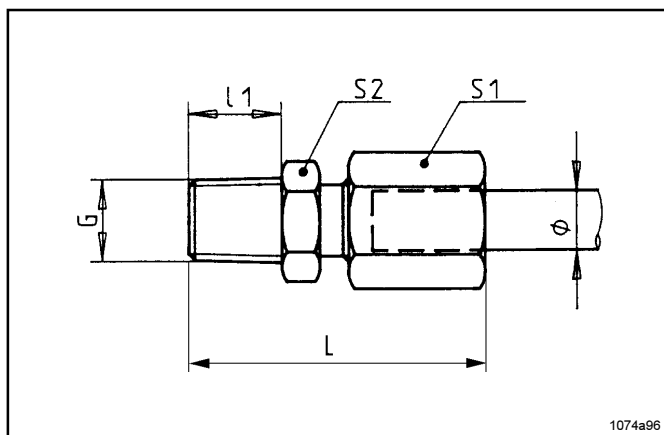


Model SSV	Dimensions A in mm
14	135
16	150
18	165
20	180
22	195

Subject to change without notice

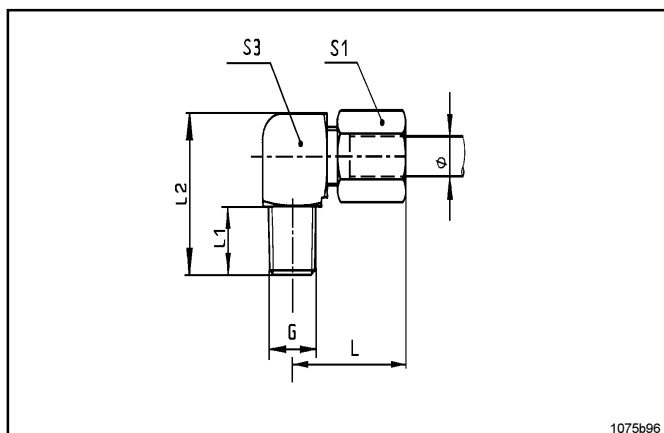
Fittings

Male connector



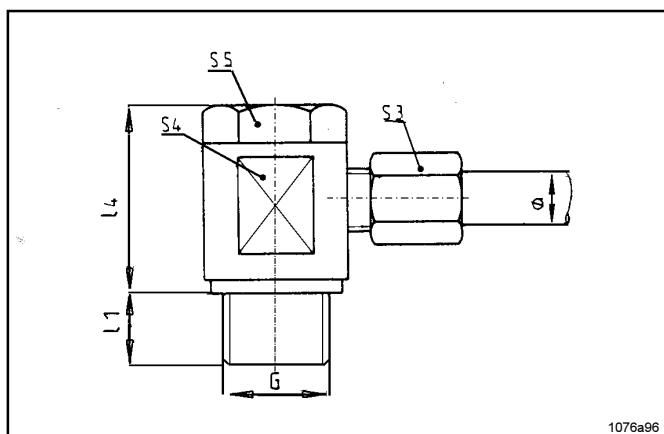
Part no.	Ø	L	L1	S1	S2	G
223-12533-5	4	26	8	10	9	M 6x1 con.
223-12271-8	4	25	8	10	10	M 8x1 con.
223-13069-1	4	25	8	12	11	M10x1 con.
223-12270-8	4	26	8	12	11	R 1/8 con.
223-12533-9	6	26	8	12	11	M 6x1 con.
223-13023-1	6	26	8	12	11	M 8x1 con.
223-12271-7	6	26	8	12	11	M10x1 con.
223-12270-7	6	26	8	12	11	R 1/8 con.
223-13021-1	8	23	8	14	14	M 10x1 con.
223-12361-6	8	25	12	17	17	M12x1.5 con.
223-12270-9	8	28	8	14	12	R 1/8 con.
223-13621-6	8	25	12	19	17	R 1/4 con.

Male elbow



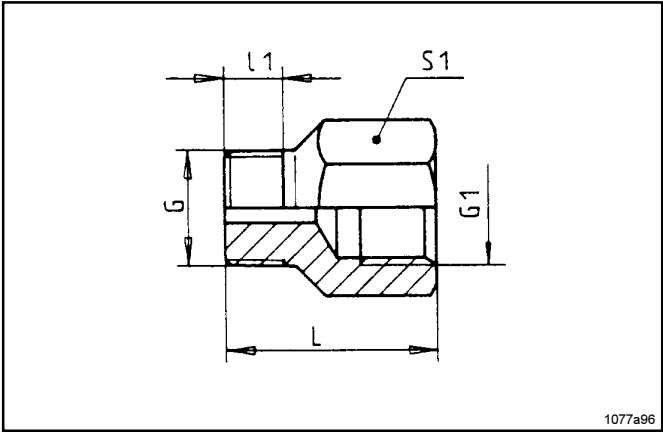
Part no.	Ø	L	L1	L2	S1	S3	G
223-12533-6	4	21	8	17	10	9	M 6x1 con.
223-13021-5	4	21	8	17	10	9	M 8x1 con.
223-13069-2	4	21	8	17	10	9	M10x1 con.
223-13021-4	4	21		17	10	9	R 1/8 con.
223-13023-2	6	21	8	17	12	11	M 6x1 con.
223-13023-3	6	21	8	17	12	11	M 8x1 con.
223-13021-3	6	21	8	17	12	11	M10x1 con.
223-12485-9	6	21	8	17	12	11	R 1/8 con.
223-12362-4	8	23	8	20	14	12	M10x1 con.
223-12362-8	8	29	12	26	17	14	M12x1.5 con.
223-13021-6	8	23	8	20	14	12	R 1/8 con.

Banjo connector



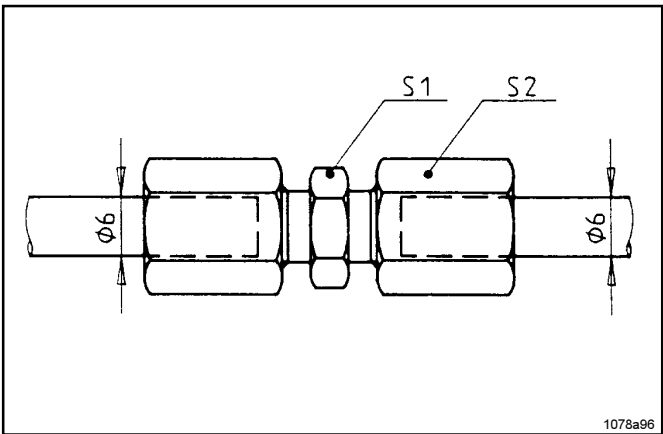
Part no.	Ø	L1	L4	S3	S4	S5	G
223-13629-1	4	6	20	12	14	14	G 1/8 A
223-12480-8	4	6	20	12	14	14	M10x1
223-12479-9	6	6	20	12	14	14	G 1/8 A
223-12480-7	6	6	20	12	14	14	M10x1

Extensions



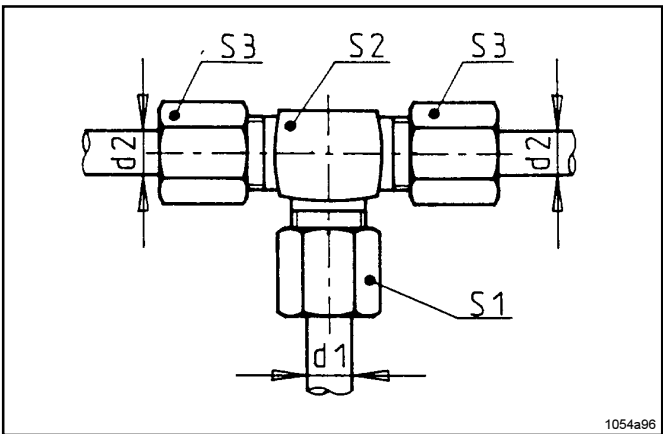
Part no.	L	L1	S1	G	G1
304-19437-1	16	6	10	M 8x1	M 8x1
304-19230-1	18	6	13	G 1/8"	M10x1
712-12724-7	20	8	14	M12x1	M10x1
304-19167-1	17	6	13	M 8x1	R 1/8
304-19787-1	20	6	10	M 6x1	M 8x1
304-19509-1	18	4.5	13	M10x1	M10x1
304-19548-1	16	6	10	M8x1.25 a	M8x1 i

Union



Part no.	S1	S2
223-12482-9	11	12

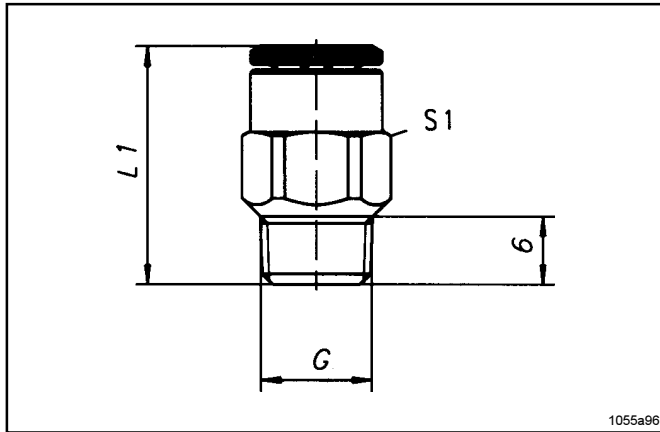
Union tee



Part no.	S1	S2	S3
223-12484-9	12	11	12

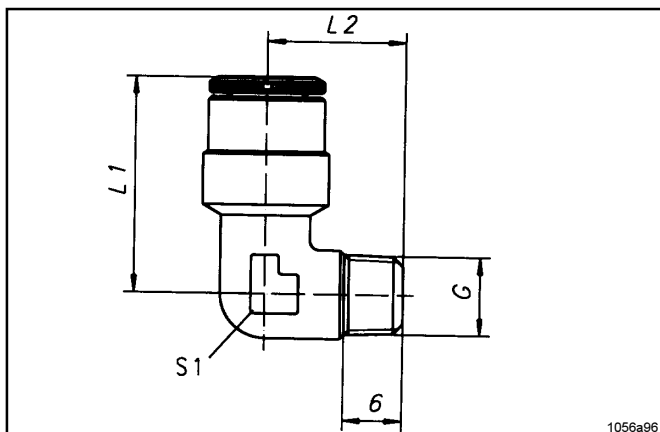
Subject to change without notice

Male connector, push-in type



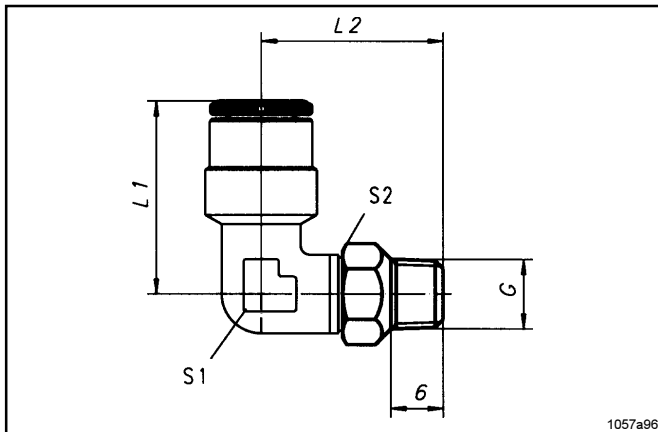
Part no.	Ø	L1	S1	G
226-13752-3	4	21	10	M 6x1 con.
226-13752-1	4	18	10	M 8x1 con.
226-13752-2	4	18	12	M 10x1 con.
226-13752-4	4	19	12	R 1/8 con.
226-13752-8	6	23.5	12	M 6x1 con.
226-13752-7	6	23	12	M 8x1 con.
226-13752-6	6	21	12	M 10x1 con.
226-13752-9	6	21.5	12	R 1/8 con.
226-14111-1	6	21.5	12	R 1/8 con.

Male elbow, push-in type



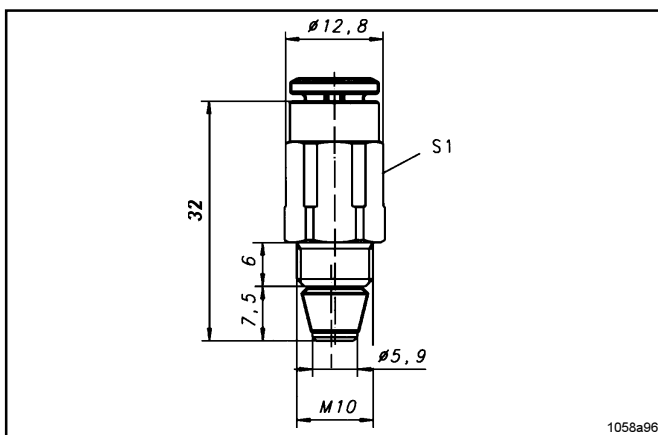
Part no.	Ø	L1	L2	S1	G
226-13753-5	4	20	13.5	10	M 6x1 con.
226-13753-1	4	20	15	10	M 8x1 con.
226-13753-2	4	20	15	10	M 10x1 con.
226-13753-3	4	20	15	10	R 1/8 con.
226-13753-7	6	22	15	10	M 6x1 con.
226-13753-8	6	22	14	10	M 8x1 con.
226-13753-6	6	22	14	10	M 10x1 con.
226-13753-4	6	22	16.5	10	R 1/8 con.
226-13753-9	6	23	16	10	R 1/8 con.

Male elbow, push-in type, rotatable



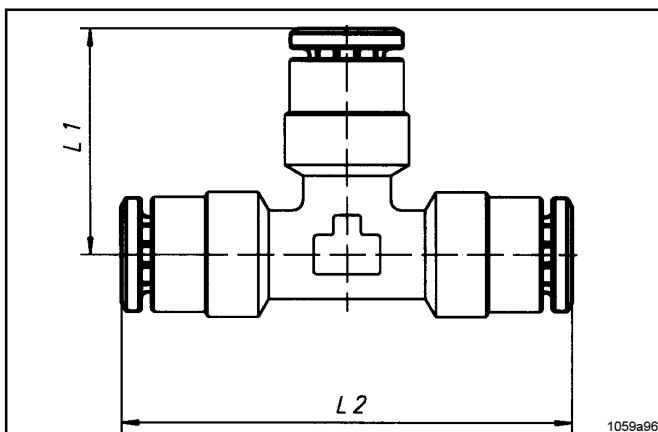
Part no.	Ø	L1	L2	S2	G
226-13756-2	4	20	21	10	M 10x1
226-13756-1	4	20	21	10	M 8x1
226-13756-3	6	20	21	12	R 1/8
226-13756-4	6	22	21	10	M 8x1
226-13756-5	6	22	21	12	M 10x1
226-13756-6	4	20	21	10	M 6x1
226-13756-7	6	22	21	10	M 6x1
226-13756-8	6	22	21	10	R 1/8

Valve body, push-in type



Part no.	G
226-14091-2	M 10x1
226-14091-4	M 10x1

TT - piece, push-in type



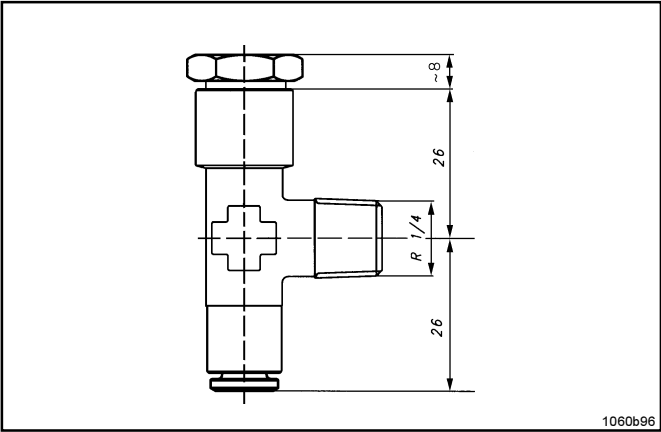
Part no.	L1	L2
226-14097-2	23	46
226-14097-4	23	46

Subject to change without notice

Safety valve, push-in type

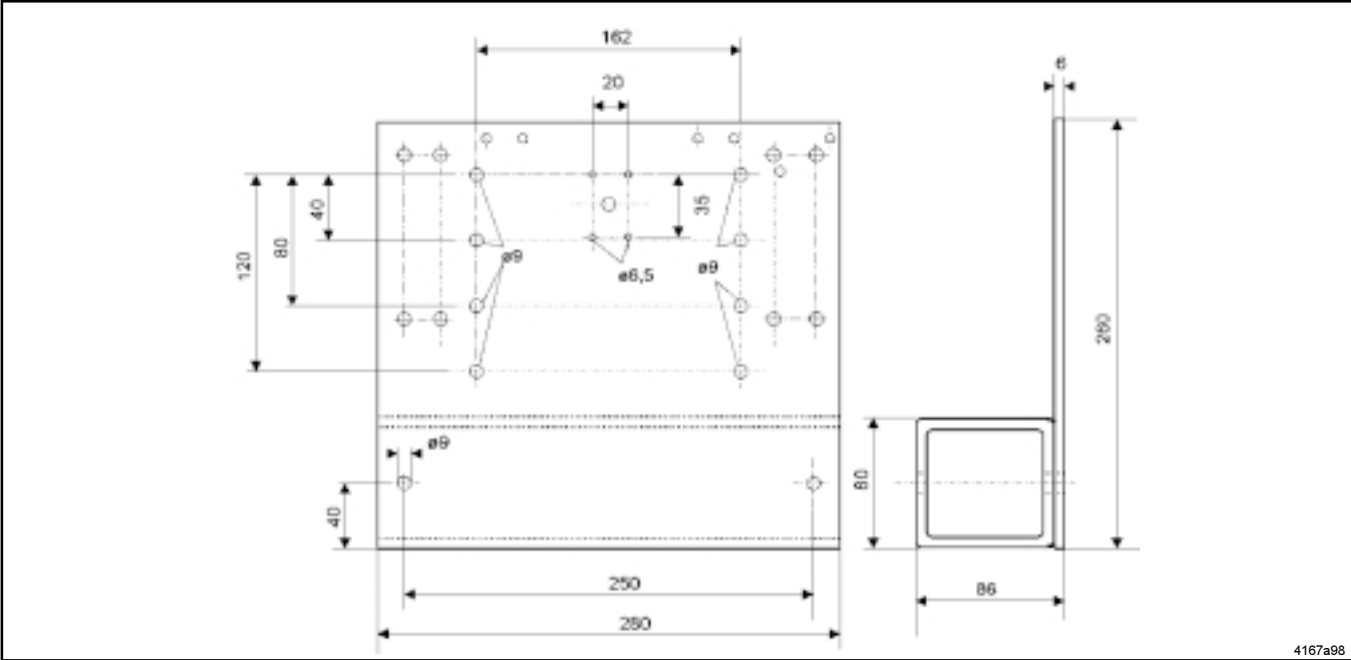
Part no.

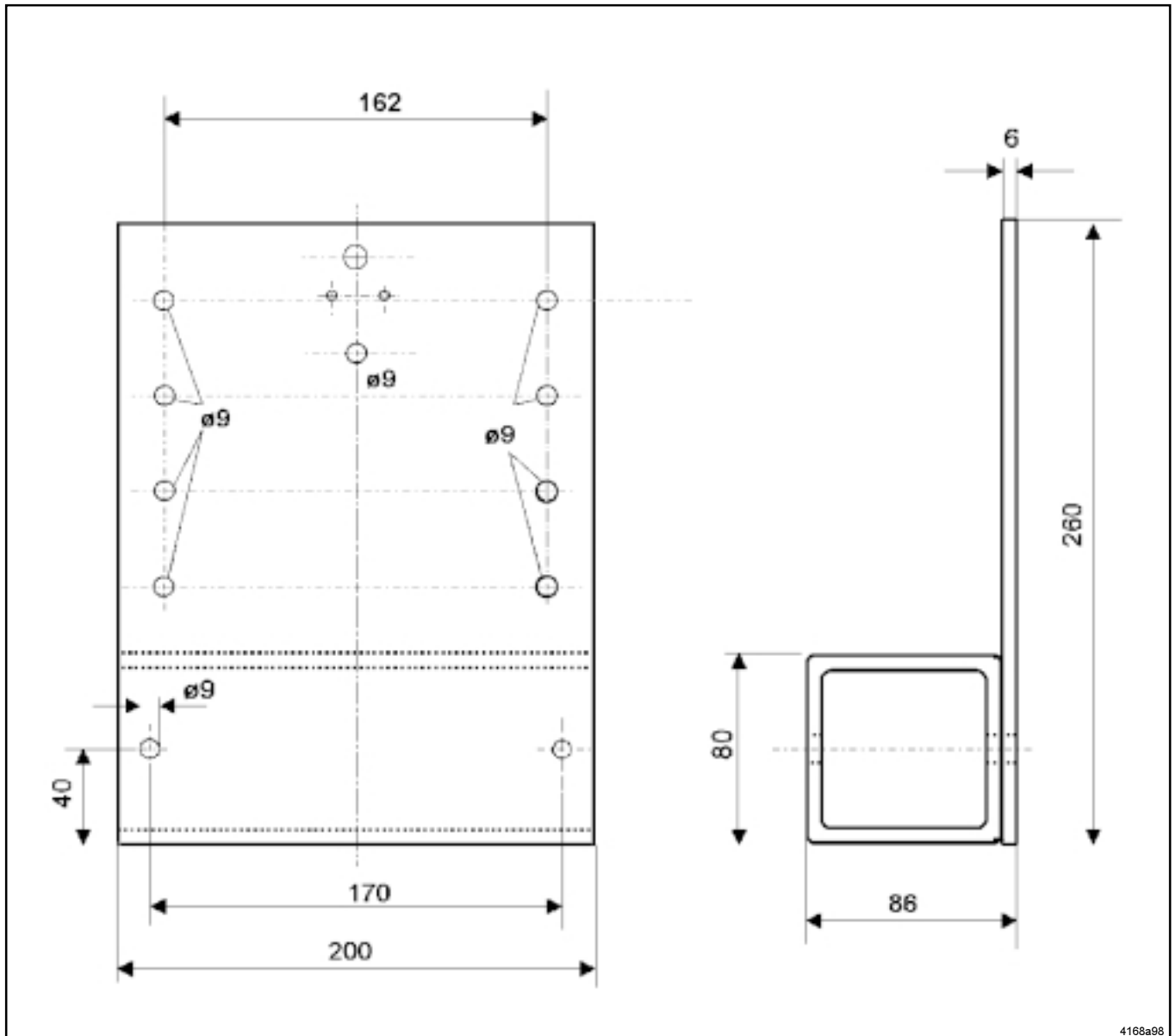
624-28612-1



Brackets

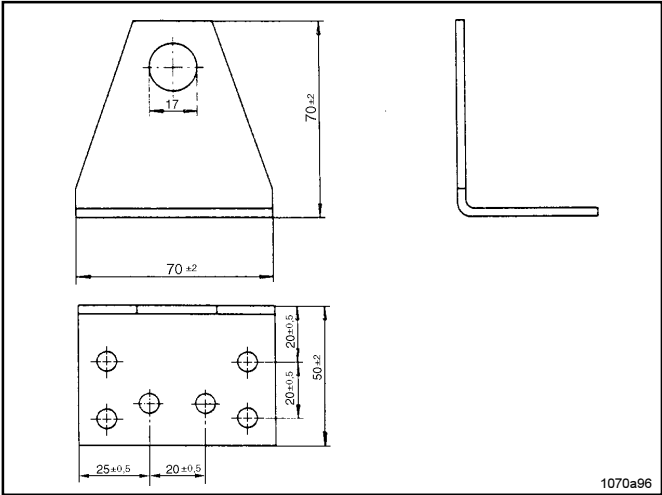
Pump models 103, 203 universal



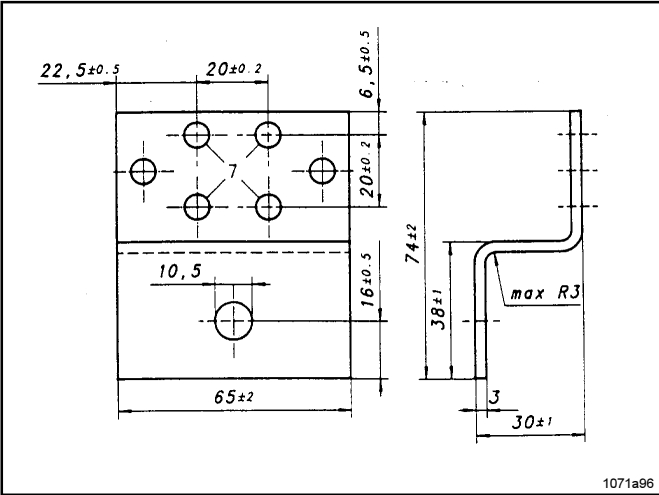


Metering Devices

Mounting elbow



Bracket



Weights

Pump model 203

The weights mentioned below include the following "individual weights":

- Pump kit with one pump element, safety valve, grease filling (0.75 kg, 1.5 kg)
- Packing (cardboard box)
- Fixing parts
- Operating instructions

2 l - reservoir, Standard (0.75 kg)

Pump model 203 without connecting cable	5.4 Kg
Pump model 203 type of connection 1A1.10	6.5 Kg
Pump model 203 type of connection 2A1.10	7.1 Kg

4 l - reservoir, Standard (1.5 kg)

Pump model 203 without connecting cable	8.3 Kg
Pump model 203 type of connection 1A1.10	9.3 Kg
Pump model 203 type of connection 2A1.10	9.9 Kg

8 l - Behälter, Standard (1.5 kg)

Pump model 203 without connecting cable	8.6 Kg
Pump model 203 type of connection 1A1.10	9.6 Kg
Pump model 203 type of connection 2A1.10	10.2 Kg

In the case of other pump models the weights of the components below must be added to the a. m. weights.

per pump element	+0.2 kg
per safety element	+0.1 kg
10 m connection cable, 5 wire (Microprocessor) 2A 4	+1.1 kg
10 m connection cable, 4 wire (Microprocessor) 2A 4	+0.4 kg
Connection cable with piston detektor	0.1 kg
Reservoir design "Filling from top"(only 2-l)*	+0.15 kg
2-l flat-type reservoir	+0.5 kg

Note: The 4-l and 8-l reservoirs are equipped in series with "filling from top"

Metering Devices

model SSV 6	0.8 kg	Check valve assy., screwed.	16.2 g
model SSV 8	1.0 kg	Check valve assy., push-in type.	18.9 g
model SSV 10	1.2 kg	Male Connectors	
model SSV 12	1.4 kg	screw-type	13.8 g
model SSV 14	1.8 kg	push-in type	10.6 g
model SSV 16	2.0 kg	Male elbows,	
model SSV 18	22 kg	screw-type	23.5 g
model SSV 20	2.4 kg	push-in type	16.0 g
model SSV 22	26 kg	Hydraulic lubrication fitting	10.3 g

